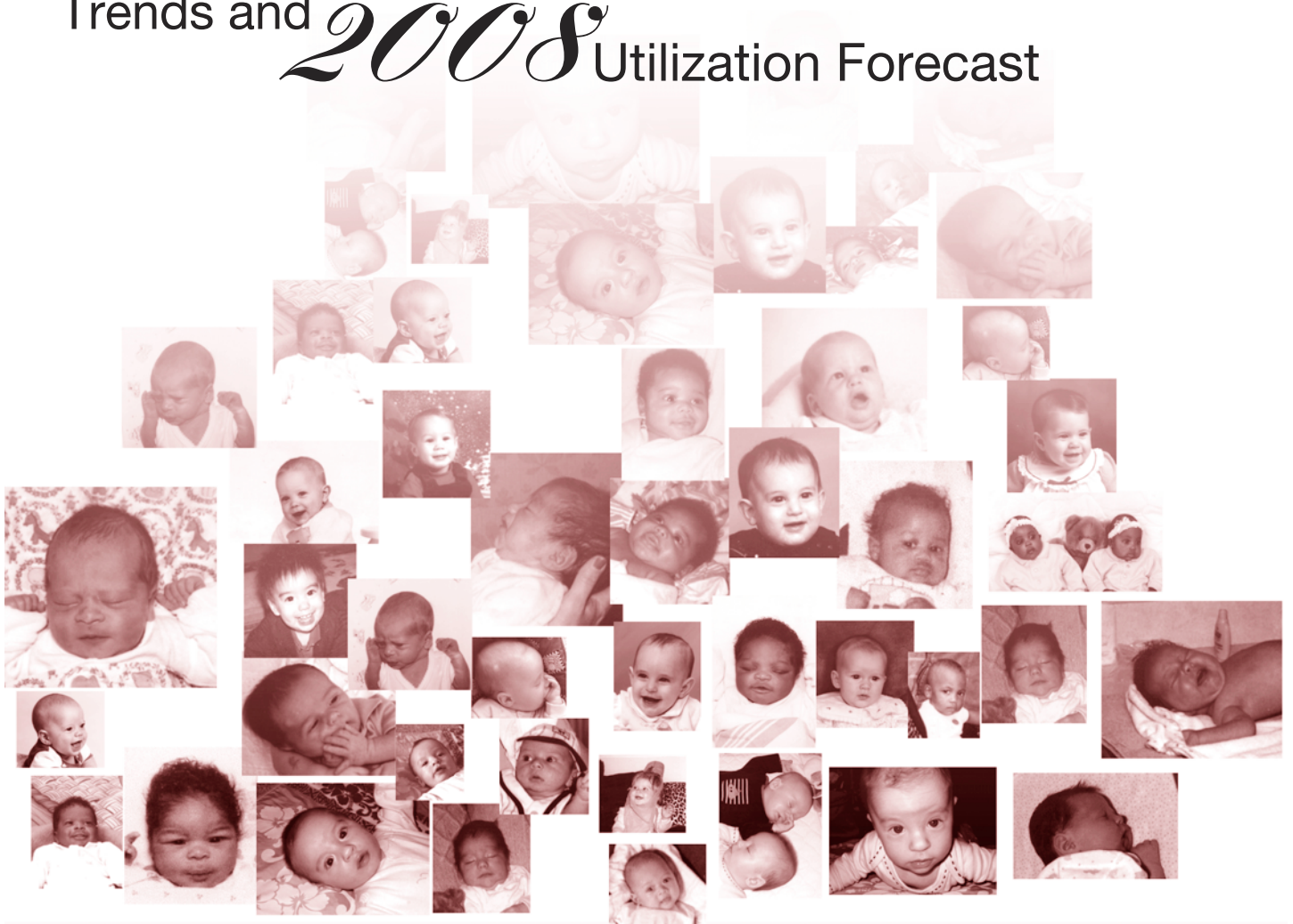


Maryland Hospital Obstetric Services:

Trends and *2008* Utilization Forecast



July 2004



Donald E. Wilson, M.D., MACP
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Maryland Hospital Obstetrics Services: Trends and 2008 Utilization Forecast



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I. Introduction

Background

This report provides historical and projected utilization data and other information to support the ongoing planning efforts of the Maryland Health Care Commission (MHCC) for inpatient obstetric services provided in acute general hospitals. Obstetric service trends were also described in two previous version of this report, in 2002 and 2003. The MHCC's State Health Plan for Facilities and Services: Acute Hospital Inpatient Obstetric Services, codified as COMAR 10.24.12, also addresses current issues in hospital obstetric services.

The MHCC defines hospital obstetric services by a series of specific diagnostic related groups (DRGs). Table 1 lists the DRGs that define hospital obstetric services. Approximately 88-90 percent of obstetric service discharges in Maryland are in the DRG categories for normal and cesarean section deliveries. The other eleven percent encompass post- and antepartum diagnoses, as listed below.

Table 1. DRGs Defining Maryland Hospital Obstetric Services

DRG Codes	DRG Description
370 & 371	Cesarean section with or without complications
372, 373, 374 & 375	Vaginal delivery with or without complications, or with other procedures
376, 377, 378, 379, 382, 383 & 384	Postpartum diagnoses, ectopic pregnancy, threatened abortion, false labor, other antepartum diagnoses (the 'non-birth DRGs')

Data Sources

Unless otherwise stated, population data used in this report are from the Maryland Department of Planning; birth data are from the Maryland Department of Planning and Vital Statistics Administration in the Department of Health and Mental Hygiene; and hospital utilization data are from the Maryland hospital discharge abstract data set collected by the Health Services Cost Review Commission.

Organization of the Report

Section II of this report describes trends in utilization of hospital obstetric services in Maryland from various perspectives, including the inventory of obstetric services and beds in acute general hospitals, trends and population projections for females 15 to 44 years old in Maryland, trends in actual and projected births from the Maryland Department of Planning, trends in selected birth characteristics such as cesarean section deliveries, rates of prenatal care and low birth weight based on information from the Vital Statistics Administration and the Centers for Disease Control, and trends in hospital statistics such as discharges, average length of

stay, average daily census, charges and payer mix. Section III of the report briefly describes the methodology used to forecast future hospital obstetric discharges and average daily census on a jurisdiction-specific basis to a target year of 2008, and shows the forecast of discharges and average daily census in relation to current levels. Appendix A contains detailed tables on which the discussion in Section II is based. A complete description of the utilization forecast methodology is provided in Appendix B.

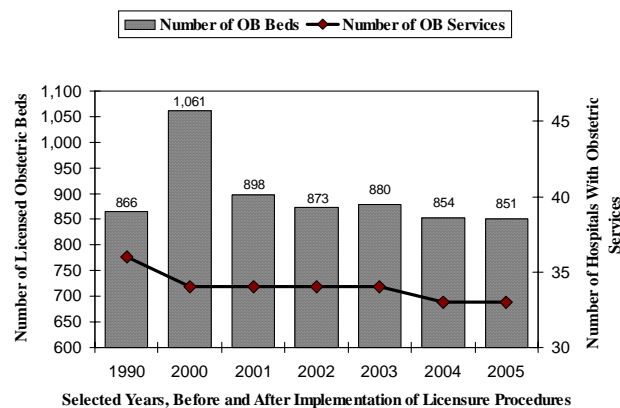
II. Overview: Trends in Maryland Hospital Obstetric Service Utilization

Inventory of Acute Hospital Obstetric Services

Currently, 33 of Maryland's 47 acute general hospitals have an obstetric service. Figure 1 shows the trend in the number of obstetric services and obstetric beds in Maryland. The number of obstetric beds in Maryland has remained fairly stable over the last five years, even though the average daily census has been increasing slightly.

Table 2 lists all acute general hospitals in Maryland by region and by jurisdiction, the number of obstetric beds by hospital in fiscal year 2005, and shows which hospitals do not have obstetric services. This table also shows which hospitals are part of a multi-hospital system.

Figure 1. Trends in Acute Care Hospital Obstetric Services Inventory:
Maryland, 1990 – 2005



Source: Maryland Health Care Commission
Note: 2001 – 2005 are fiscal years

Population Estimates and Projections: Females of Child-Bearing Age

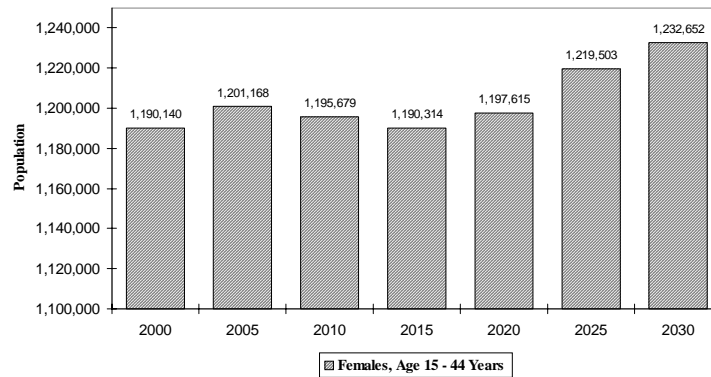
The 15 to 44 year old female age group is the population category generally associated with obstetric services. This population group has been declining in numbers through the 1990s, and is projected to continue to decline over the next ten years, as shown in Figure 2. Between 2020 and 2030, this population group is expected to begin increasing again, for a total increase of 3.6 percent over 2000. By comparison, the Maryland's total population is projected to increase by 21.6 percent from 2000 to 2030.

Table 2. Obstetric Services Inventory and System Affiliation: Maryland, Fiscal Year 2005

Jurisdictions	Hospital Name	Obstetric Beds	Current Local Hospital-System Affiliation
Allegany Frederick Garrett Washington	Memorial of Cumberland Hospital	9	Western Md Hlth System Western Md Hlth System
	Sacred Heart Hospital	0	
	Frederick Memorial Hospital	23	
	Garrett County Memorial Hospital	4	
	Washington County Hospital	15	
WESTERN MARYLAND TOTAL		51	
Montgomery	Holy Cross Hospital	85	Adventist Hlth Care
	Montgomery General Hospital	16	
	Shady Grove Adventist Hospital	59	
	Suburban Hospital	0	
	Washington Adventist Hospital	25	Adventist Hlth Care
MONTGOMERY COUNTY TOTAL		185	
Calvert Charles Prince George's St. Mary's	Calvert Memorial Hospital	10	Dimensions Hlth System Dimensions Hlth System
	Civista Medical Center	15	
	Doctors Community Hospital	0	
	Fort Washington	0	
	Laurel Regional Medical Center	13	
	Prince George's Hospital Center	40	
	Southern Maryland Hospital Center	30	
	St. Mary's Hospital	12	
SOUTHERN MARYLAND TOTAL		120	
Anne Arundel Baltimore City Baltimore Co. Carroll Harford Howard	Anne Arundel Medical Center	50	Univ of Md Med System Bon Secours Health System MedStar Health MedStar Health Univ of Md Med System Johns Hopkins Hlth System Johns Hopkins Hlth System Univ of Md Med System LifeBridge Health MedStar Health Univ of Md Med System MedStar Health Upper Chesapeake Hlth Sys Upper Chesapeake Hlth Sys Johns Hopkins Hlth System
	North Arundel Hospital	0	
	Bon Secours Hospital	0	
	Good Samaritan Hospital	0	
	Harbor Hospital	25	
	James Lawrence Kernan Hospital	0	
	Johns Hopkins Bayview M. C.	14	
	Johns Hopkins Hospital	35	
	Maryland General Hospital	21	
	Mercy Medical Center	26	
	Sinai Hospital of Baltimore	23	
	St. Agnes Hospital	29	
	Union Memorial Hospital	0	
	University of Maryland Medical Center	34	
	Franklin Square Hospital	37	
	Greater Baltimore Medical Center	60	
	Northwest Hospital	0	
	St. Joseph Hospital	28	
	Carroll Co. General Hospital	20	
	Upper Chesapeake Medical Center	9	
	Harford Memorial Hospital	0	
	Howard County General Hospital	32	
CENTRAL MARYLAND TOTAL		443	
Cecil Dorchester Kent Somerset Talbot Wicomico Worcester	Union Hospital of Cecil	6	Shore Health System Shore Health System
	Dorchester General Hospital	0	
	Kent & Queen Anne's Hospital	4	
	Edward W. McCready Hospital	0	
	Memorial Hospital at Easton	18	
	Peninsula Regional Medical Center	24	
	Atlantic General Hospital	0	
EASTERN SHORE TOTAL		52	
MD TOTAL	33 Obstetric Programs	851	

Source: Maryland Health Care Commission

Figure 2. Trend in Population Estimates of Women of Child Bearing Age: Maryland, 2000 – 2030



Source: Maryland Department of Planning; 2004 Total Population Projections (Feb. 2004)

Population trends in the 15 to 44 year old female age group are presented in Table A-1 in Appendix A by county and by selected jurisdictions, in five year increments from 2000 to 2030. The percent change between the five year increments is shown in Table A-2. While this population is projected to continue to decline statewide and in many jurisdictions through 2015, growth is expected in Charles and Frederick counties, and to a lesser extent in Cecil, Harford, Howard, Queen Anne's, Montgomery and Wicomico counties. Most of the projected decline is expected to occur in Central Maryland.

Birth Trends and Projections

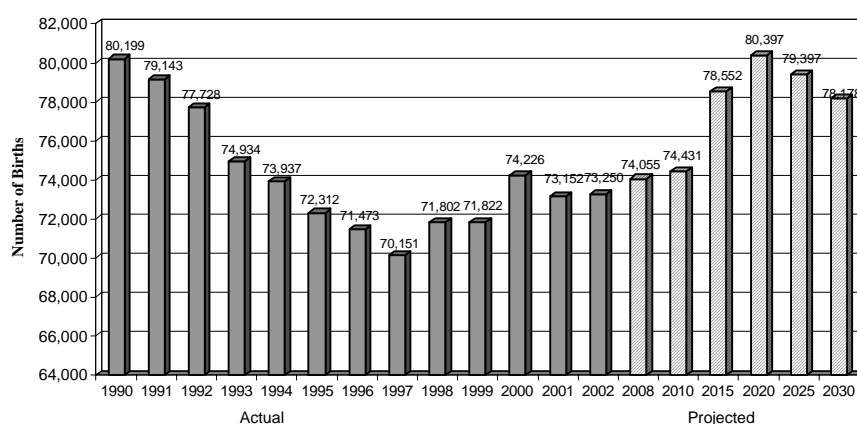
The number of births to Maryland residents declined through most of the 1990s. Figure 3 illustrates the declining trends in actual and projected births to Maryland residents. The number of births to Maryland residents is notably less than it was in 1990, from about 80,200 in 1990 to 73,250, almost 9%. Table A-3 in Appendix A shows trends in births, by jurisdiction of residence, between 1990 and 2002, the last year for which data is available from the Vital Statistics Administration. Births to Baltimore City residents has declined by over 36 percent, accounting for the largest decline. Births to Frederick and Howard county residents showed notable increases over the same ten year period.

The Maryland Health Care Commission relies on the birth projections developed by the Maryland Department of Planning (MDP).¹ MDP's projections revised in May, 2004 are slightly

¹ The MDP's annual birth projections are produced for their public school projection report. Their annual projections are based on their 5-year birth data from their population cohort model. This model applies age and race specific fertility rates and population estimates to derive a total number of births for five year increments. The model's fertility rates are derived from historical fertility rates and adjusted as deemed necessary.

higher than projections from 2003. Generally, the number of births to Maryland residents is projected to remain quite stable through this decade.

**Figure 3. Trend in Actual and Projected Resident Births:
Maryland, 1990 - 2030**



Source: Maryland Department of Planning

Table A-4 in Appendix A shows annual and five-year birth projections for 2003 through 2030 from the MDP by jurisdiction and region. This table shows that births are expected to increase very slightly by about a half of a percent between 2003 and 2008, rise gradually through 2020, and decline again thereafter. The short term decline is projected most significantly in Anne Arundel and Montgomery counties, with some modest increases in Baltimore City, Cecil, Charles and Harford counties. The longer term increases are most significant for Frederick, Charles, and St. Mary's counties. Anne Arundel County will continue to experience declining births.

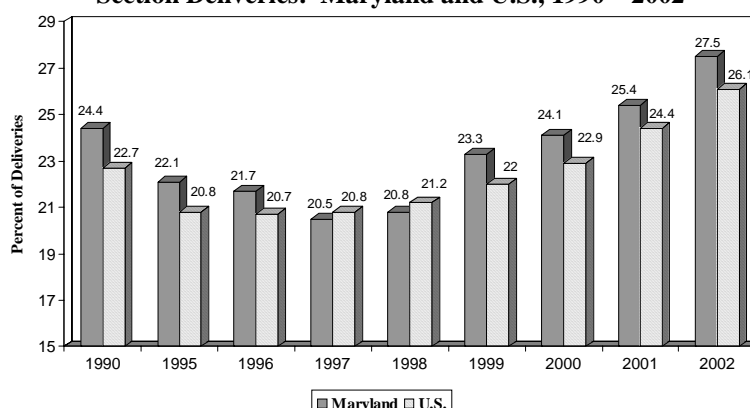
Selected Health Status Indicators

Cesarean Section Deliveries

Healthy People 2010 is a set of established national health objectives developed by the Department of Health and Human Services, states and other public and private organizations for use by individuals and organizations to guide health promotion activities. Healthy People 2010 covers 28 focus areas, including maternal, infant and child health. One of the objectives for improving health calls for reductions in cesarean births among low risk women. The target for women giving birth for the first time calls for a 17 percent reduction from the 1998 national baseline rate of 18% of live births, to 15% by 2010. The target for women who have had a prior cesarean birth calls for a 12.5% reduction, from 72% of births in 1998 to 63% by 2010.

The trend of declining cesarean section delivery rates seen in the early and mid 1990s has changed dramatically. As shown in Figure 4, the rate of cesarean section deliveries, as a percentage of all live births, to Maryland residents declined through most of the 1990s to 20.5% in 1997. The percentage has risen faster every year since 1998 to 27.5% of all births in Maryland hospitals in 2003. Nationally, cesarean section deliveries are also increasing rapidly, rising to 26.1% of all births in 2002, the highest level ever reported in the U.S. Data from the CDC indicate that this trend was seen in all states in 2002.²

Figure 4. Trends in Percentage of Cesarean Section Deliveries: Maryland and U.S., 1990 – 2002



Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Table A-5 in Appendix A shows the trends in cesarean section deliveries as a percentage of total birth discharges by jurisdiction and by region for 1980 through 2003. Cesarean section deliveries increased again in 2003 in Maryland, to 28.4 percent. This is based on data from the Maryland Hospital Discharge Abstract, and is slightly different than the data above reported as a percentage of live births.

Low Birth Weight

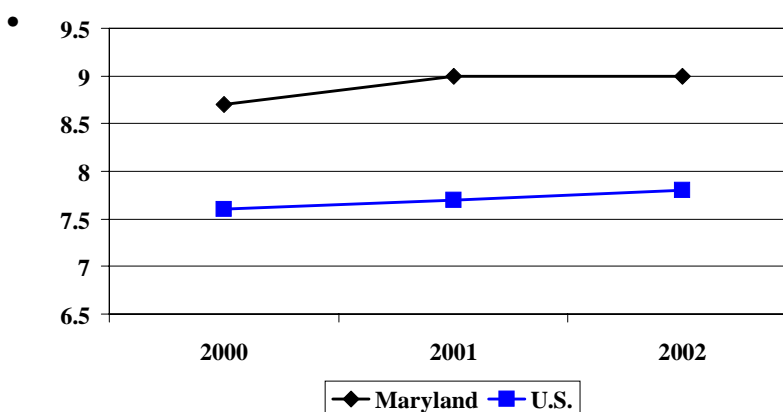
Another Healthy People objective calls for reductions in low birth weight (newborns weighing less than 2,500 grams) from 7.6% of births in 1998 to 5% by 2010. It also calls for a decrease in very low birth weight (under 1,500 grams) from 1.4% of births to 0.9% by 2010.

The percent of low birth weight (LWB) infants in Maryland remained at 9.0 in 2002 after increasing from 8.7 to 9.0 in 2001. Figure 5 illustrates Maryland's LBW compared with the national rate, which increased to 7.8% in 2002, the highest U.S. level in more than three decades.

² Martin, JA, et. al.; *Births: Final Data for 2002*; National Vital Statistics Reports; Vol. 52, No.10. National Center for Health Statistics; December 17, 2003.

According to the National Vital Statistics Report, this trend has been on the rise since the mid-1980s and is strongly influenced by the climb in the rate of multiple births.

**Figure 5. Trends in Low Birth Weight:
Maryland and U.S., 2000 - 2002**



Source: National Vital Statistics Reports, Vol.52, No.10

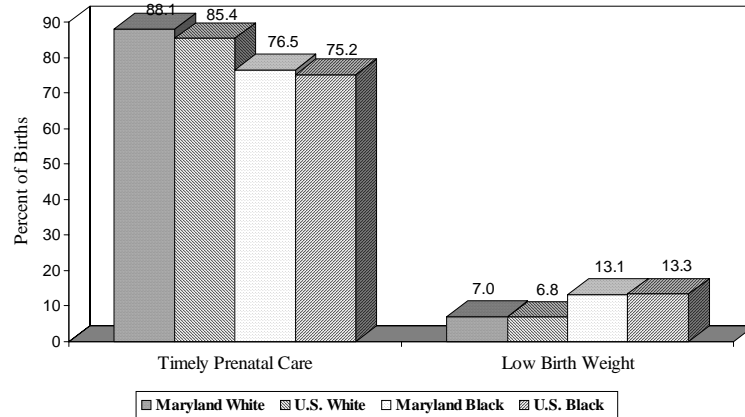
Prenatal Care

Appropriate prenatal care can promote healthier pregnancies and reduce the risk of poor pregnancy outcomes. Healthy People 2010's objectives call for an increase in the proportion of women who receive early and adequate prenatal care. Prenatal care should start in the first trimester and continue throughout pregnancy. Prenatal care includes three major components: risk assessment, treatment for medical conditions or risk reduction, and education.

In Maryland, the percent of births to women receiving prenatal care in the first trimester was 84.1% in 2002, slightly improved over the 2001 rate of 83.7%, and is slightly better than the national average of 83.8%.

Figure 6 shows how Maryland compares to the U.S. in both low birth weight and timely prenatal care, by race. Based on Maryland Vital Statistics reports, LBW is twice as prevalent when the mother's race is black than when the mother's race is white. As shown in Figure 6, in 2002 in Maryland 7.0% of white infants were LBW, compared to 13.1% of black infants, both of which increased from 2001. Although Maryland's percentage of low birth weight infants is higher than the national average of 6.8% in 2002, the percentages are similar by race. Timely prenatal care also varies considerably by race. Based on the data from the National Vital Statistics Reports for 2002, most of the small improvement in timely prenatal care in Maryland is among white mothers, not black mothers. The rate for black mothers was 76.5% in 2002, while the rate for white mothers was 88.1%.

Figure 6. Comparison of Racial Differences in Selected Health Status Indicators: Maryland and U.S., 2002



Source: National Center for Health Statistics, National Vital Statistics Reports

Utilization and Reimbursement of Hospital Obstetric Services

Discharges

Hospital obstetric service discharges increased by 3.7 percent from 2002 to 74,640 in CY 2003. Table A-6 in Appendix A shows the trend in Maryland acute general hospital obstetric service discharges by county and by selected jurisdictions from 1980 through 2002. Table A-7 shows trends in discharges by hospital. Obstetric service discharges declined in the early 1990s. Since 1997, discharges have increased by an average of only 1.1 percent per year, with Southern Maryland showing slightly more growth than other regions. Most obstetric discharges occur in the four largest jurisdictions of Baltimore City and Montgomery, Baltimore and Prince George's counties. As Table A-6 shows, in 1990 almost 75% of the obstetric discharges in Maryland occurred in these four jurisdictions, declining to 66% of discharges in 2003, and more discharges now occur in the suburban central Maryland counties.

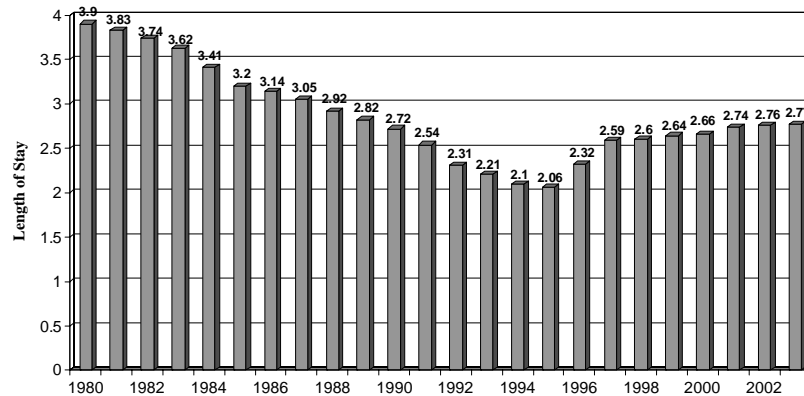
Average Length of Stay

Average length of stay (ALOS) in 2003, shown in Table A-8 in Appendix A, reached 2.77 days, up slightly from 2.76 days in 2002. This is the highest ALOS in Maryland since 1989. Table A-8 shows that ALOS varies by county and by region, with the more rural counties having the shortest ALOS, and Central Maryland, particularly Baltimore and Baltimore County, having the longest ALOS. Table A-9 shows ALOS trends by hospital.

Figure 7 shows the 20 year trend in ALOS in Maryland, and Figure 8 shows the ALOS trend by type of discharge, comparing cesarean section deliveries with other obstetric discharges.

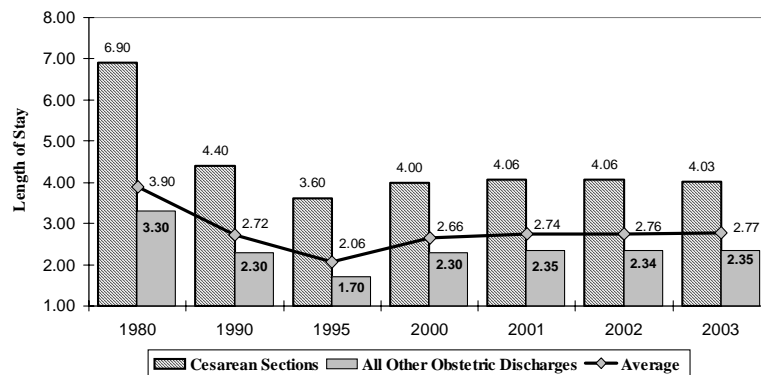
The increases in the late 1990s may reflect greater acceptance of longer length of stay since the mid-1990s, while the effect of the increase in the proportion of cesarean section deliveries begins after 1998.

Figure 7. Trend in Obstetric Average Length of Stay: Maryland, 1980 - 2003



Source: Maryland Hospital Discharge Abstract

Figure 8. Trends in Average Length of Stay by Type of Discharge: Maryland, Selected Years, 1980 - 2003

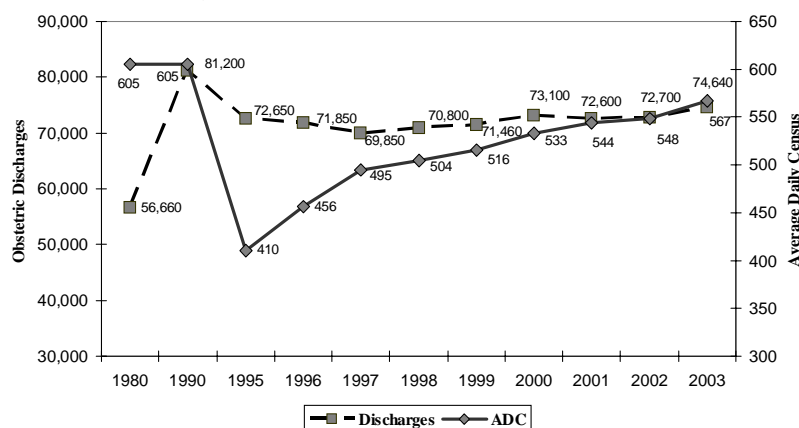


Source: Maryland Hospital Discharge Abstract

Average Daily Census

Average daily census (ADC), the daily expression of patient days, increased to 567 obstetric patients per day in Maryland in CY2003, up from 548 in 2002. In 1995, with both discharges and ALOS declining, Maryland saw the lowest average daily census in obstetrics in at least 20 years. ADC began to increase after 1995, even when discharges declined, because ALOS was increasing. With the increase in discharges beginning in 1998, and increasing ALOS, ADC has increased 38% since 1995, compare to only a 2.7% increase in discharges in the same eight years. A comparison of the trends in discharges and ADC is shown below in Figure 9. Trends in ADC by jurisdiction and region are shown in Appendix A in Table A-10 by jurisdiction and region, and in Table A-11 by hospital.

Figure 9. Trends in Obstetric Discharges and Average Daily Census: Maryland, 1980 - 2003



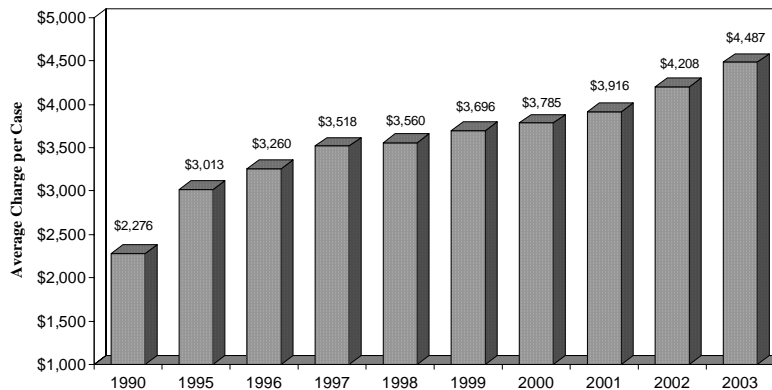
Source: Maryland Hospital Discharge Abstract

Average Charge per Case

In CY2003, the average charge for obstetric admissions in Maryland reached \$4,487 per case, as shown in Figure 10. This is a 6.6% increase over the previous year, and a nearly 49% increase since 1995. The highest average charge per case figures are in Baltimore City and Cecil County, and the lowest are found in Washington and Frederick counties. Average charge per case is shown in Table A-12 in Appendix A by county and by selected jurisdictions, and in Table A-13 by hospital. Hospital charges ranged from a low of \$2,947 at Washington County Hospital in Hagerstown to \$7,278 at the University of Maryland Medical System in Baltimore.³

³ Among community hospitals with obstetrics services; this excludes the two academic medical centers, and hospitals with occasional obstetric discharges but without obstetric services.

**Figure 10. Trend in Average Charge per Case:
Maryland, CY1980 - 2003**



Source: Maryland Hospital Discharge Abstract

Note: Figures are not inflation-adjusted.

Payer Source

Tables A-14 in Appendix A show trends in payer source and payer mix in Maryland from 1990 through 2003. This indicates that very few obstetric patients are without insurance coverage of some kind. Medicaid covers over one third of all obstetric discharges in Maryland hospitals, up from just one quarter in the 1990s. The number of Medicaid discharges has increased steadily since 1997. The number of discharges covered by Blue Cross and commercial plans has also increased, which, in combination, accounted for 32% of obstetric discharges. The number of obstetric discharges covered by health maintenance organizations (HMOs) increased in 2003 after five years of decline. With almost 41% of the market in 1998, HMOs clearly accounted for the largest share of obstetric discharges. In 2003, however, both Medicaid and Commercial/Blue Cross payers had a greater share of the market. Table A-15 shows the current payer mix by hospital in 2003.

III. 2008 Utilization Forecast: Maryland Hospital Obstetric Services

Description of Methodology

The methodology used to forecast hospital obstetric services discharges and average daily census is based on the methodology originally adopted by the Maryland Health Resources Planning Commission in the State Health Plan chapter, COMAR 10.24.10 for obstetric services. This methodology, based on birth projections, Vital Statistics data and assumptions about possible changes in average length of stay, is intended for use by hospitals when planning for obstetric services, and by state agencies interested in projected obstetric services utilization.

The Maryland Department of Planning (MDP) makes projections annually of the number of births to Maryland residents for use in their public school projection report. Migration patterns based on data from Maryland Vital Statistics are then applied to the projections of births by jurisdiction of residence to get a number of births by jurisdiction of birth. Then, based on data from the Maryland Hospital Discharge Abstract, the proportion of hospital discharges in the non-birth DRGs (see Table 1) is used to convert the number of expected births to a number of projected discharges. Finally, making assumptions about obstetric services average length of stay by jurisdiction based on historical trends, an estimate of total patient days and average daily census can be made.

Obstetric Discharges: 2008

The forecast of future obstetric discharges based on MDP's birth projections (Table A-4 in Appendix A), indicates that discharges are projected to increase by 2,418 discharges, or 3.3% from 2002 to 2008. Forecasting average daily census in Maryland hospitals is then a function of patient migration patterns and the assumptions about future trends in average length of stay. The ALOS assumptions used in this forecast, and shown in Table 3, suggest a range of expected length of stay based on a review of the recent trends in ALOS. Length of stay is not likely to continue to increase significantly, as it has now reached a level greater than before it began to decline sharply in the mid 1990s. By projecting a range within which ALOS is expected by 2008, the uncertain timing of any easing of the recent volatile nature of ALOS can be taken into account.

Table 3. Target Year Expected Average Length of Stay

BASE YEAR ALOS		TARGET YEAR EXPECTED ALOS		
Non C-Sections*	Cesarean Sections		Non C-Sections	Cesarean Sections
2.35	4.06	Minimum	2.30	4.00
		Maximum	2.40	4.10

* All Other Obstetric Discharges, includes DRGs 372-379 and 382-384

Table 4 presents the forecasted discharges and ADC by jurisdiction, and a comparison of the forecast with actual discharges and ADC in the base year, 2002. A complete description of the methodology used to reach the 2008 forecast can be found in Appendix B.

Table 4a. Utilization Forecast Methodology's Projected Discharges and Average Daily Census: Comparison of Base Year (2002) and Target Year (2008), by Jurisdiction

Jurisdiction of Utilization	Discharges		Average Daily Census		
	Base Year (2002)	Target Year (2008)	Base Year	Target Year Minimum	Target Year Maximum
Allegany County	1,119	1,113	6.9	6.7	7.0
Anne Arundel County	4,845	4,404	33.1	29.6	30.7
Baltimore City	16,609	16,607	139.5	137.3	142.4
Baltimore County	9,884	10,621	80.3	85.0	88.0
Calvert County	960	1,026	6.2	6.5	6.8
Carroll County	1,322	1,415	8.9	9.4	9.7
Cecil County	800	863	4.7	5.0	5.2
Charles County	1,102	1,104	7.5	7.4	7.7
Frederick County	2,355	2,392	16.4	16.4	17.0
Garrett County	273	314	1.6	1.8	1.9
Harford County	1,359	1,411	8.3	8.5	8.8
Howard County	3,358	3,316	25.2	24.5	25.4
Kent County	256	299	1.8	2.1	2.2
Montgomery County	16,189	17,700	125.6	135.2	140.1
Prince George's County	6,025	6,182	43.3	43.7	45.3
St. Mary's County	970	1,025	5.8	6.0	6.2
Talbot County	1,085	1,074	7.0	6.8	7.1
Washington County	1,959	1,914	11.0	10.5	10.9
Wicomico County	2,241	2,357	15.2	15.7	16.3
MARYLAND TOTAL	72,719	75,137	548.2	558.0	578.6

Table 4b. Utilization Forecast Methodology's Projected Discharges and Average Daily Census: Comparison of Base Year (2002) and Target Year (2008) by Region and Selected Jurisdiction

Region/ Selected Jurisdiction	Discharges		Average Daily Census		
	Base Year (2002)	Target Year (2008)	Base Year	Target Year	
			ADC	Minimum	Maximum
Western Maryland	5,706	5,732	35.8	35.4	36.8
Montgomery County	16,189	17,700	125.6	135.2	140.1
Southern Maryland	9,057	9,336	62.7	63.6	66.0
Central Maryland Total	37,641	37,774	295.3	294.2	305.1
Eastern Shore	4,468	4,593	28.7	29.6	30.7
MARYLAND TOTAL	73,061	75,137	548.1	558.0	578.6
Baltimore City	16,609	16,607	139.5	137.3	142.4
Baltimore County	9,884	10,621	80.3	85.0	88.0
Montgomery County	16,189	17,700	125.6	135.2	140.1
Prince George's County	6,025	6,182	43.3	43.7	45.3

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Appendix A:

Detailed Tables

**Table A-1(a). Population Estimates and Projections for Females, 15-44 Years of Age,
by Jurisdiction of Residence: Maryland, 2000 - 2030**

Jurisdiction	2000	2005	2010	2015	2020	2025	2030
Allegany County	14,596	14,085	13,565	13,172	12,892	12,384	12,003
Anne Arundel County	107,886	107,055	103,673	101,154	98,490	98,865	98,214
Baltimore City	152,684	146,761	145,701	142,410	140,953	141,452	141,562
Baltimore County	165,679	165,321	164,045	162,958	161,396	162,164	163,238
Calvert County	16,454	17,699	17,322	16,685	16,697	17,385	18,043
Caroline County	6,152	6,073	5,984	5,861	5,988	6,137	6,177
Carroll County	31,892	34,282	33,689	33,498	33,350	33,826	32,665
Cecil County	18,767	19,833	20,194	20,440	20,601	21,363	22,029
Charles County	28,252	30,924	31,810	33,129	35,949	38,575	40,306
Dorchester County	5,979	5,678	5,437	5,232	5,172	5,232	5,250
Frederick County	43,932	47,199	48,550	50,353	54,211	58,461	63,834
Garrett County	5,934	5,532	5,292	5,168	5,080	5,121	5,154
Harford County	47,661	48,496	49,544	50,204	50,334	51,657	52,517
Howard County	56,839	59,613	60,810	61,331	62,341	62,285	61,663
Kent County	3,839	3,945	3,830	3,711	3,659	3,650	3,613
Montgomery County	194,112	196,198	197,821	200,375	205,111	209,291	208,449
Prince George's County	197,274	198,611	195,460	191,416	190,063	193,176	197,961
Queen Anne's County	8,096	8,432	8,345	8,722	9,148	9,628	9,762
Somerset County	4,932	4,684	4,826	4,879	4,936	4,821	4,792
St. Mary's County	19,488	19,922	19,986	19,973	21,150	22,538	23,468
Talbot County	5,940	5,888	5,576	5,424	5,488	5,710	5,773
Washington County	25,939	26,454	25,923	25,905	25,685	26,425	26,448
Wicomico County	19,411	20,061	20,121	20,362	20,899	21,088	21,204
Worcester County	8,402	8,422	8,175	7,952	8,022	8,269	8,527
STATE TOTAL	1,190,140	1,201,168	1,195,679	1,190,314	1,197,615	1,219,503	1,232,652

**Table A-1(b). Population Estimates and Projections for Females, 15-44 Years of Age, by Region
and Selected Jurisdiction: Maryland, Selected Years, 2000 - 2030**

Region/ Selected Jurisdiction	2000	2005	2010	2015	2020	2025	2030
Western Maryland	90,401	93,270	93,330	94,598	97,868	102,391	107,439
Montgomery County	194,112	196,198	197,821	200,375	205,111	209,291	208,449
Southern Maryland	261,468	267,156	264,578	261,203	263,859	271,674	279,778
Central Maryland	562,641	561,528	557,462	551,555	546,864	550,249	549,859
Eastern Shore	81,518	83,016	82,488	82,583	83,913	85,898	87,127
State Total	1,190,140	1,201,168	1,195,679	1,190,314	1,197,615	1,219,503	1,232,652
Baltimore City	152,684	146,761	145,701	142,410	140,953	141,452	141,562
Baltimore County	165,679	165,321	164,045	162,958	161,396	162,164	163,238
Montgomery County	194,112	196,198	197,821	200,375	205,111	209,291	208,449
Prince George's County	197,274	198,611	195,460	191,416	190,063	193,176	197,961

Note: Western Maryland: Allegany, Frederick, Garrett and Washington counties. Southern Maryland: Calvert, Charles, Prince George's and St. Mary counties. Central Maryland: Anne Arundel, Baltimore, Carroll, Harford and Howard counties and Baltimore City.

Source: Maryland Department of Planning, 2004 Total Population Projections (February, 2004), prepared by the Maryland Health Care Commission

**Table A-2(a). Percent Change in Female Population, 15-44 Years of Age,
by Jurisdiction of Residence: Maryland, 2000 - 2030**

Jurisdiction	2000 - 2005	2005 - 2010	2010 - 2015	2015 - 2020	2020 - 2025	2025 - 2030
Allegany County	-3.5%	-3.7%	-2.9%	-2.1%	-3.9%	-3.1%
Anne Arundel County	-0.8%	-3.2%	-2.4%	-2.6%	0.4%	-0.7%
Baltimore City	-3.9%	-0.7%	-2.3%	-1.0%	0.4%	0.1%
Baltimore County	-0.2%	-0.8%	-0.7%	-1.0%	0.5%	0.7%
Calvert County	7.6%	-2.1%	-3.7%	0.1%	4.1%	3.8%
Caroline County	-1.3%	-1.5%	-2.1%	2.2%	2.5%	0.7%
Carroll County	7.5%	-1.7%	-0.6%	-0.4%	1.4%	-3.4%
Cecil County	5.7%	1.8%	1.2%	0.8%	3.7%	3.1%
Charles County	9.5%	2.9%	4.1%	8.5%	7.3%	4.5%
Dorchester County	-5.0%	-4.2%	-3.8%	-1.1%	1.2%	0.3%
Frederick County	7.4%	2.9%	3.7%	7.7%	7.8%	9.2%
Garrett County	-6.8%	-4.3%	-2.3%	-1.7%	0.8%	0.6%
Harford County	1.8%	2.2%	1.3%	0.3%	2.6%	1.7%
Howard County	4.9%	2.0%	0.9%	1.6%	-0.1%	-1.0%
Kent County	2.8%	-2.9%	-3.1%	-1.4%	-0.2%	-1.0%
Montgomery County	1.1%	0.8%	1.3%	2.4%	2.0%	-0.4%
Prince George's County	0.7%	-1.6%	-2.1%	-0.7%	1.6%	2.5%
Queen Anne's County	4.2%	-1.0%	4.5%	4.9%	5.2%	1.4%
Somerset County	-5.0%	3.0%	1.1%	1.2%	-2.3%	-0.6%
St. Mary's County	2.2%	0.3%	-0.1%	5.9%	6.6%	4.1%
Talbot County	-0.9%	-5.3%	-2.7%	1.2%	4.0%	1.1%
Washington County	2.0%	-2.0%	-0.1%	-0.8%	2.9%	0.1%
Wicomico County	3.3%	0.3%	1.2%	2.6%	0.9%	0.6%
Worcester County	0.2%	-2.9%	-2.7%	0.9%	3.1%	3.1%
State Total	0.9%	-0.5%	-0.4%	0.6%	1.8%	1.1%

**Table A-2(b). Percent Change in Female Population, 15-44 Years of Age,
by Region and Selected Jurisdiction: Maryland, 2000 - 2030**

Region/ Selected Jurisdiction	2000 - 2005	2005 - 2010	2010 - 2015	2015 - 2020	2020 - 2025	2025 - 2030
Western Maryland	3.2%	0.1%	1.4%	3.5%	4.6%	4.9%
Montgomery County	1.1%	0.8%	1.3%	2.4%	2.0%	-0.4%
Southern Maryland	2.2%	-1.0%	-1.3%	1.0%	3.0%	3.0%
Central Maryland	-0.2%	-0.7%	-1.1%	-0.9%	0.6%	-0.1%
Eastern Shore	1.8%	-0.6%	0.1%	1.6%	2.4%	1.4%
State Total	0.9%	-0.5%	-0.4%	0.6%	1.8%	1.1%
Baltimore City	-3.9%	-0.7%	-2.3%	-1.0%	0.4%	0.1%
Baltimore County	-0.2%	-0.8%	-0.7%	-1.0%	0.5%	0.7%
Montgomery County	1.1%	0.8%	1.3%	2.4%	2.0%	-0.4%
Prince George's County	0.7%	-1.6%	-2.1%	-0.7%	1.6%	2.5%

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Baltimore, Carroll, Harford and Howard counties and Baltimore City.

Source: Maryland Department of Planning, 2004 Total Population Projections (February, 2004), prepared by the Maryland Health Care Commission

Table A-3(a). Trends in Maryland Births by Jurisdiction of Residence: Maryland, 1990 - 2002

Jurisdiction	Actual Births												
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Allegany County	904	893	887	869	793	776	784	761	753	728	794	708	712
Anne Arundel County	6,778	6,612	6,746	6,203	6,531	6,598	6,419	6,465	6,602	6,660	6,790	6,893	6,785
Baltimore City	14,354	13,815	12,983	12,264	11,192	9,997	9,751	9,262	9,624	9,734	9,641	9,100	9,046
Baltimore County	10,213	10,009	9,658	9,261	9,164	9,417	9,124	8,899	9,080	9,003	9,396	9,056	8,997
Calvert County	862	852	877	901	858	900	917	914	939	956	1,024	955	1,012
Caroline County	424	425	415	366	386	358	382	363	336	363	407	389	385
Carroll County	1,968	1,963	1,833	1,787	1,857	1,812	1,913	1,827	1,922	1,828	1,897	1,884	1,898
Cecil County	1,184	1,187	1,194	1,097	1,068	1,101	1,073	1,090	1,092	1,168	1,138	1,178	1,158
Charles County	1,739	1,739	1,638	1,638	1,674	1,597	1,649	1,636	1,689	1,675	1,746	1,747	1,753
Dorchester County	477	414	422	363	345	301	315	389	298	314	328	336	308
Frederick County	2,559	2,463	2,577	2,536	2,665	2,648	2,660	2,626	2,730	2,595	2,906	2,897	3,009
Garrett County	430	417	394	416	389	361	366	349	358	355	333	328	300
Harford County	2,958	2,965	2,957	2,911	3,011	2,950	2,963	2,855	3,082	2,925	2,954	2,895	2,901
Howard County	3,119	3,233	3,251	3,359	3,411	3,487	3,433	3,358	3,362	3,372	3,563	3,602	3,508
Kent County	233	264	221	200	224	189	187	202	181	211	203	155	157
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055	13,146	13,154
Prince George's County	13,401	13,566	13,434	13,058	12,755	12,350	12,348	11,972	12,138	11,900	12,423	12,269	12,403
Queen Anne's County	488	442	475	434	418	421	470	429	477	477	500	470	532
Somerset County	272	267	279	257	285	263	240	249	248	253	273	244	259
St. Mary's County	1,352	1,320	1,372	1,241	1,280	1,231	1,164	1,207	1,218	1,303	1,215	1,266	1,337
Talbot County	415	382	373	364	357	378	345	320	322	332	369	355	334
Washington County	1,660	1,737	1,630	1,564	1,538	1,525	1,559	1,589	1,577	1,646	1,601	1,622	1,691
Wicomico County	1,162	1,175	1,174	1,155	1,128	1,021	1,084	1,095	1,037	1,126	1,174	1,136	1,156
Worcester County	474	537	504	496	491	446	479	481	486	529	496	521	455
TOTALS	80,199	79,143	77,728	74,934	73,937	72,312	71,473	70,151	71,802	71,822	74,226	73,152	73,250

Table A-3(b). Trends in Maryland Resident Births by Region and Selected Jurisdiction: Maryland, 1990 - 2002

Region/ Selected Jurisdiction	Actual Births												
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Western Maryland	5,553	5,510	5,488	5,385	5,385	5,310	5,369	5,325	5,418	5,324	5,634	5,555	5,712
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055	13,146	13,154
Southern Maryland	17,354	17,477	17,321	16,838	16,567	16,078	16,078	15,729	15,984	15,834	16,408	16,237	16,505
Central Maryland	39,390	38,597	37,428	35,785	35,166	34,261	33,603	32,666	33,672	33,522	34,241	33,430	33,135
Eastern Shore	5,129	5,093	5,057	4,732	4,702	4,478	4,575	4,618	4,477	4,773	4,888	4,784	4,744
State Total	80,199	79,143	77,728	74,934	73,937	72,312	71,473	70,151	71,802	71,822	74,226	73,152	73,250
Baltimore City	14,354	13,815	12,983	12,264	11,192	9,997	9,751	9,262	9,624	9,734	9,641	9,100	9,046
Baltimore County	10,213	10,009	9,658	9,261	9,164	9,417	9,124	8,899	9,080	9,003	9,396	9,056	8,997
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055	13,146	13,154
Prince George's County	13,401	13,566	13,434	13,058	12,755	12,350	12,348	11,972	12,138	11,900	12,423	12,269	12,403

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Department of Planning, June 2004

Table A-4(a). Projected Resident Births, by Jurisdiction of Residence: Maryland, 2003 - 2030

Jurisdiction							Long Range Projection Estimates					Percent Change:	
	2003	2004	2005	2006	2007	2008	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2003-2008	2005-2030
Allegany County	675	700	700	700	700	700	704	701	666	638	622	3.7%	-11.7%
Anne Arundel County	6,780	6,480	6,380	6,380	6,530	6,530	6,404	6,724	6,807	6,566	6,171	-3.7%	-3.6%
Baltimore City	8,750	8,900	9,100	9,100	9,100	9,100	9,073	9,008	8,601	8,515	8,630	4.0%	-4.9%
Baltimore County	9,480	9,380	9,330	9,380	9,430	9,530	9,565	10,152	10,245	9,869	9,575	0.5%	0.1%
Calvert County	1,030	1,030	1,030	1,030	1,030	1,030	1,111	1,201	1,259	1,258	1,230	0.0%	10.7%
Caroline County	440	410	390	390	390	400	406	411	400	395	403	-9.1%	-0.7%
Carroll County	2,020	1,990	1,990	1,990	1,990	2,020	2,047	2,201	2,248	2,169	2,047	0.0%	0.0%
Cecil County	1,000	1,175	1,200	1,225	1,225	1,250	1,300	1,375	1,410	1,415	1,431	25.0%	10.1%
Charles County	1,850	1,850	1,875	1,950	2,025	2,100	2,056	2,306	2,439	2,469	2,540	13.5%	23.5%
Dorchester County	330	340	350	360	360	360	367	365	344	335	338	9.1%	-8.0%
Frederick County	2,950	2,950	2,975	3,050	3,050	3,050	3,017	3,499	3,871	4,026	4,229	3.4%	40.2%
Garrett County	280	310	320	320	330	340	332	333	327	320	317	21.4%	-4.4%
Harford County	2,770	2,800	2,850	2,900	2,950	3,000	3,222	3,563	3,609	3,487	3,442	8.3%	6.8%
Howard County	3,530	3,450	3,500	3,500	3,500	3,500	3,525	3,947	4,285	4,240	3,980	-0.8%	12.9%
Kent County	170	170	170	180	180	185	200	206	195	180	175	8.8%	-12.1%
Montgomery County	13,580	13,100	12,600	12,600	12,600	12,600	12,704	13,421	14,301	14,219	13,748	-7.2%	8.2%
Prince George's County	12,700	12,275	12,275	12,275	12,375	12,475	12,436	12,925	13,103	12,996	12,905	-1.8%	3.8%
Queen Anne's County	480	500	500	510	520	530	528	579	606	612	613	10.4%	16.1%
Somerset County	270	240	240	240	240	240	240	232	227	222	218	-11.1%	-9.4%
St. Mary's County	1,380	1,400	1,400	1,425	1,425	1,425	1,418	1,504	1,526	1,564	1,641	3.3%	15.8%
Talbot County	340	340	330	330	330	330	337	355	359	352	346	-2.9%	2.5%
Washington County	1,575	1,575	1,600	1,600	1,625	1,650	1,698	1,744	1,761	1,745	1,745	4.8%	2.8%
Wicomico County	1,110	1,160	1,180	1,190	1,190	1,200	1,216	1,252	1,254	1,258	1,283	8.1%	5.5%
Worcester County	490	490	490	500	510	510	525	547	553	547	549	4.1%	4.6%
TOTALS	73,980	73,015	72,775	73,125	73,605	74,055	74,431	78,552	80,397	79,397	78,178	0.1%	5.0%

Table A-4(b). Projected Maryland Births by Region and Selected Jurisdiction: Maryland 2003 - 2030

Region/ Selected Jurisdiction							Long Range Projection Estimates					Percent Change:	
	2003	2004	2005	2006	2007	2008	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2003-2008	2005-2030
Western Maryland	5,480	5,535	5,595	5,670	5,705	5,740	5,751	6,278	6,625	6,729	6,914	4.7%	20.2%
Montgomery County	13,580	13,100	12,600	12,600	12,600	12,600	12,704	13,421	14,301	14,219	13,748	-7.2%	8.2%
Southern Maryland	16,960	16,555	16,580	16,680	16,855	17,030	17,021	17,936	18,327	18,287	18,316	0.4%	7.6%
Central Maryland	33,330	33,000	33,150	33,250	33,500	33,680	33,836	35,596	35,795	34,846	33,846	1.1%	0.0%
Eastern Shore	4,630	4,825	4,850	4,925	4,945	5,005	5,119	5,322	5,347	5,316	5,355	8.1%	4.6%
State Total	73,980	73,015	72,775	73,125	73,605	74,055	74,431	78,552	80,397	79,397	78,178	0.1%	5.0%
Baltimore City	8,750	8,900	9,100	9,100	9,100	9,100	9,073	9,008	8,601	8,515	8,630	4.0%	-4.9%
Baltimore County	9,480	9,380	9,330	9,380	9,430	9,530	9,565	10,152	10,245	9,869	9,575	0.5%	0.1%
Montgomery County	13,580	13,100	12,600	12,600	12,600	12,600	12,704	13,421	14,301	14,219	13,748	-7.2%	8.2%
Prince George's County	12,700	12,275	12,275	12,275	12,375	12,475	12,436	12,925	13,103	12,996	12,905	-1.8%	3.8%

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Department of Planning, May 2004

**Table A-5(a). Trends in Cesarean Section Delivery Rates As a Percent
of all Deliveries: Maryland, Selected Years, 1980-2003**

Jurisdiction	1980	1990	1995	2000	2001	2002	2003
Allegany County	10.5%	22.4%	18.5%	22.6%	24.9%	27.8%	29.1%
Anne Arundel County	21.1%	27.2%	20.3%	23.1%	27.9%	29.4%	31.9%
Baltimore City	19.4%	22.2%	20.7%	19.8%	24.0%	25.5%	26.2%
Baltimore County	21.8%	24.7%	24.0%	23.0%	27.6%	29.5%	29.7%
Calvert County	34.7%	26.2%	22.1%	21.8%	27.9%	25.6%	27.3%
Carroll County	16.3%	29.4%	21.3%	22.4%	29.1%	27.3%	28.6%
Cecil County	12.8%	20.9%	20.5%	17.4%	21.8%	24.2%	27.6%
Charles County	17.9%	25.7%	17.8%	20.7%	27.5%	24.1%	25.1%
Frederick County	15.4%	22.8%	21.8%	18.4%	22.0%	22.3%	22.8%
Garrett County	8.3%	10.4%	13.4%	9.8%	16.7%	22.5%	16.0%
Harford County	18.4%	18.2%	17.3%	12.8%	18.9%	18.8%	23.1%
Howard County	26.9%	24.3%	20.1%	23.3%	24.0%	27.3%	28.3%
Kent County	32.3%	42.1%	22.2%	16.9%	14.8%	24.7%	18.4%
Montgomery County	21.8%	26.5%	21.4%	22.4%	25.5%	28.7%	30.5%
Prince George's County	22.3%	25.9%	24.8%	24.0%	27.9%	29.1%	28.3%
St. Mary's County	21.2%	33.0%	27.4%	19.7%	29.0%	27.9%	30.0%
Talbot County	16.9%	19.2%	11.2%	10.7%	14.7%	19.0%	18.8%
Washington County	14.0%	22.8%	20.7%	17.6%	21.8%	23.3%	24.7%
Wicomico County	20.2%	25.3%	25.9%	25.0%	29.2%	32.3%	36.8%
MARYLAND TOTAL	19.9%	24.4%	21.7%	21.5%	25.4%	27.3%	28.4%

**Table A-5(b). Trends in Cesarean Section Delivery Rates As a Percent
of all Deliveries: Maryland, Selected Years, 1980-2003**

Region/ Selected Jurisdiction	1980	1990	1995	2000	2001	2002	2003
Western Maryland	12.7%	21.8%	20.2%	19.8%	22.3%	23.7%	24.3%
Montgomery County	21.8%	26.5%	21.4%	24.8%	25.5%	28.7%	30.5%
Southern Maryland	22.7%	26.7%	24.2%	26.3%	28.0%	28.0%	27.9%
Central Maryland	20.2%	23.4%	21.6%	24.1%	25.6%	27.1%	28.1%
Eastern Shore	18.4%	24.6%	21.3%	21.9%	23.4%	27.1%	29.6%
State Total	19.9%	24.4%	21.7%	24.0%	25.4%	27.3%	28.4%
Baltimore City	19.4%	22.2%	20.7%	23.2%	24.0%	25.5%	26.2%
Baltimore County	21.8%	24.7%	24.0%	25.1%	27.6%	29.5%	29.7%
Montgomery County	21.8%	26.5%	21.4%	24.8%	25.5%	28.7%	30.5%
Prince George's County	22.3%	25.9%	24.8%	27.9%	27.9%	29.1%	28.3%

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Baltimore, Carroll, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

**Table A-6(a). Trends in Obstetric Discharges, by Jurisdiction of Hospitalization:
Maryland, Selected Years, 1980 - 2003**

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany County	1,912	1,423	1,284	1,274	1,223	1,198	1,114	1,144	1,112	1,119	1,149
Anne Arundel County	2,208	3,236	3,221	3,324	3,498	3,843	4,279	4,564	4,826	4,845	5,235
Baltimore City	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851	16,609	16,068
Baltimore County	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021	9,884	10,507
Calvert County	506	758	831	845	843	887	819	883	875	960	956
Carroll County	767	690	883	972	1,131	1,257	1,282	1,349	1,367	1,322	1,396
Cecil County	493	509	751	752	730	724	798	746	753	800	697
Charles County	520	515	768	535	740	939	1,027	1,107	1,036	1,102	1,241
Dorchester County	379	399	285	293	141	6	8	17	7	7	5
Frederick County	1,256	2,146	2,111	2,101	2,131	2,098	1,962	2,221	2,257	2,355	2,331
Garrett County	398	428	344	348	362	310	336	309	279	273	299
Harford County	1,064	847	786	838	784	831	738	769	1,185	1,359	1,445
Howard County	1,206	2,852	3,396	3,212	2,993	3,046	3,103	3,318	3,391	3,358	3,650
Kent County	304	282	241	231	259	244	252	268	233	256	289
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246	16,189	16,642
Prince George's County	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948	6,025	6,363
Somerset County	152	2	1	0	1	1	2	1	4	0	1
St. Mary's County	661	928	778	877	911	828	899	858	881	970	1,005
Talbot County	959	1,208	875	800	1,010	1,064	1,097	1,148	1,132	1,085	1,083
Washington County	1,715	1,787	1,736	1,702	1,772	1,760	1,821	1,816	1,852	1,959	1,987
Wicomico County	1,936	2,444	2,150	2,271	2,225	2,158	2,290	2,345	2,337	2,241	2,289
Worcester County	0	0	6	10	0	5	3	2	2	1	3
MARYLAND TOTAL	56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595	72,719	74,641

**Table A-6(b). Trends in Obstetric Discharges, by Region and Selected Jurisdiction:
Maryland, Selected Years, 1980 - 2003**

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Western Maryland	5,281	5,784	5,475	5,425	5,488	5,366	5,233	5,490	5,500	5,706	5,766
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246	16,189	16,642
Southern Maryland	6,390	8,646	8,954	9,112	8,631	8,614	8,761	8,862	8,740	9,057	9,565
Central Maryland	33,485	44,984	37,799	36,819	35,921	37,028	37,128	37,900	37,641	37,377	38,301
Eastern Shore	4,223	4,844	4,309	4,357	4,366	4,202	4,450	4,527	4,468	4,390	4,367
State Total	56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595	72,719	74,641
Baltimore City	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851	16,609	16,068
Baltimore County	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021	9,884	10,507
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246	16,189	16,642
Prince George's County	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948	6,025	6,363

Notes: No hospitals are located in Caroline and Queen Anne's counties. Most of the 14 Maryland hospitals without obstetric programs occasionally treat and admit obstetric patients. Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table A-7. Trends in Obstetric Discharges: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany	Frostburg Hospital	2	-									
	Memorial of Cumberland Hospital	993	687	582	564	638	613	479	1,093	1,112	1,113	1,148
	Sacred Heart Hospital	917	736	702	710	585	585	635	51	-	6	1
	Total	1,912	1,423	1,284	1,274	1,223	1,198	1,114	1,144	1,112	1,119	1,149
Frederick	Frederick Memorial Hospital	1,256	2,146	2,111	2,101	2,131	2,098	1,962	2,221	2,257	2,355	2,331
Garrett	Garrett County Memorial Hospital	398	428	344	348	362	310	336	309	279	273	299
Washington	Washington County Hospital	1,715	1,787	1,736	1,702	1,772	1,760	1,821	1,816	1,852	1,959	1,987
WESTERN MARYLAND TOTAL		5,281	5,784	5,475	5,425	5,488	5,366	5,233	5,490	5,500	5,706	5,766
Montgomery	Holy Cross Hospital	4,119	8,281	8,019	8,153	7,410	7,169	7,301	7,850	7,954	7,847	8,035
	Montgomery General Hospital	1,219	1,228	1,085	1,049	944	945	915	830	782	913	984
	Shady Grove Adventist Hospital	19	4,916	4,662	4,620	4,800	5,124	5,202	5,067	4,964	4,885	5,093
	Suburban Hospital	22	19	17	16	15	16	13	18	17	33	14
	Washington Adventist Hospital	1,902	2,482	2,334	2,295	2,273	2,336	2,457	2,535	2,529	2,511	2,516
MONTGOMERY COUNTY TOTAL		7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246	16,189	16,642
Calvert Charles Prince George's	Calvert Memorial Hospital	506	758	831	845	843	887	819	883	875	960	956
	Physician's Memorial Hospital*	520	515	768	535	740	939	1,027	1,107	1,036	1,102	1,241
	Doctor's Community Hospital	29	50	41	30	28	20	17	25	31	59	56
	Fort Washington Medical Center*	5	-	26	22	9	13	13	17	30	27	22
	Laurel Regional Hospital	14	669	798	867	855	923	993	831	649	726	858
	Leland Memorial Hospital	14	27									
	Prince George's Hospital Center	3,232	3,798	3,979	3,889	3,389	3,268	3,137	3,318	3,297	3,318	3,558
	Southern Maryland Hospital Center	1,409	1,901	1,733	2,047	1,856	1,736	1,856	1,823	1,941	1,895	1,869
	Total	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948	6,025	6,363
St. Mary's	St. Mary's Hospital	661	928	778	877	911	828	899	858	881	970	1,005
SOUTHERN MARYLAND TOTAL		6,390	8,646	8,954	9,112	8,631	8,614	8,761	8,862	8,740	9,057	9,565
Anne Arundel	Anne Arundel Medical Center	2,190	3,199	3,196	3,301	3,473	3,826	4,252	4,527	4,787	4,813	5,206
	North Arundel Hospital	18	37	25	23	25	17	27	37	39	32	29
	Total	2,208	3,236	3,221	3,324	3,498	3,843	4,279	4,564	4,826	4,845	5,235
Baltimore County	Franklin Square Hospital	2,501	4,463	3,523	3,002	2,810	2,972	3,032	3,304	3,000	2,808	2,987
	Greater Baltimore Medical Center	2,891	5,273	6,109	6,037	5,495	5,356	5,068	5,119	4,660	4,765	4,987
	Northwest Hospital Center	5	33	14	21	26	26	26	31	18	36	33
	St. Joseph Hospital	2,714	2,356	1,906	2,178	2,417	2,505	2,507	2,362	2,343	2,275	2,500
	Total	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021	9,884	10,507
Baltimore City	Bon Secours Hospital	31	6	5	10	10	5	5	7	11	8	3
	Childrens Hospital	-	-	-	-	1	-	-	-	-	-	-
	Church Hospital	22	13	8	7	7	8	6	-	-	-	-
	Good Samaritan Hospital	1	4	14	14	15	21	13	23	20	21	33
	Harbor Hospital	1,876	2,531	1,989	1,732	1,612	1,758	1,928	2,094	2,013	1,912	1,890
	Homewood North/Wyman Park	-	1									
	Homewood South/North Charles	2	27									

Table A-7. Trends in Obstetric Discharges: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Carroll Harford	Johns Hopkins Bayview Medical Ctr.	1,269	1,373	1,138	1,277	1,287	1,398	1,379	1,350	1,383	1,453	1,454
	Johns Hopkins Hospital	3,365	4,229	2,587	2,293	2,265	2,203	2,238	2,205	2,301	2,179	2,329
	Kernan Hospital	-	-	-	-	-	-	-	-	-	-	-
	Liberty Medical Center	15	26	33	29	21	18	21	-	-	-	-
	Maryland General Hospital	1,245	1,161	713	614	610	870	977	1,188	1,126	1,200	1,224
	Mercy Medical Center	1,693	3,299	2,406	2,840	3,186	3,341	3,371	3,281	3,048	2,663	2,754
	Provident Hospital	780	-	-	-	-	-	-	-	-	-	-
	Sinai Hospital of Baltimore	3,921	4,609	3,304	3,056	2,498	2,436	2,359	2,508	2,325	2,441	2,424
	St. Agnes Hospital	2,483	3,107	2,296	2,391	2,528	2,449	2,269	2,095	2,096	2,061	2,053
	Union Memorial Hospital	1,237	1,987	1,266	1,076	910	958	906	792	869	974	263
	University of Maryland	2,189	2,861	2,202	1,896	1,817	1,727	1,621	1,541	1,659	1,697	1,641
	Total	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851	16,609	16,068
	Carroll County General Hospital	767	690	883	972	1,131	1,257	1,282	1,349	1,367	1,322	1,396
	Upper Chesapeake Medical Center	7	11	3	6	7	9	12	172	1,181	1,353	1,429
	Harford Memorial Hospital	1,057	836	783	832	777	822	726	597	4	6	16
	Total	1,064	847	786	838	784	831	738	769	1,185	1,359	1,445
Howard	Howard County General Hospital	1,206	2,852	3,396	3,212	2,993	3,046	3,103	3,318	3,391	3,358	3,650
CENTRAL MARYLAND TOTAL		33,485	44,984	37,799	36,819	35,921	37,028	37,128	37,900	37,641	37,377	38,301
Cecil	Union Hospital of Cecil	493	509	751	752	730	724	798	746	753	800	697
Dorchester	Dorchester General Hospital	379	399	285	293	141	6	8	17	7	7	5
Kent	Chester River Hospital Center*	304	282	241	231	259	244	252	268	233	256	289
Somerset	E. W. McCready Memorial Hospital	152	2	1	-	1	1	2	1	4	-	1
Talbot	Memorial Hospital at Easton	959	1,208	875	800	1,010	1,064	1,097	1,148	1,132	1,085	1,083
Wicomico	Peninsula Regional Medical Center	1,936	2,444	2,150	2,271	2,225	2,158	2,290	2,345	2,337	2,241	2,289
Worcester	Atlantic General Hospital	-	-	6	10	-	5	3	2	2	1	3
EASTERN SHORE TOTAL		4,223	4,844	4,309	4,357	4,366	4,202	4,450	4,527	4,468	4,390	4,367
MARYLAND TOTAL		56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595	72,719	74,641

*Notes: Civista Medical Center was formerly Physician's Memorial Hospital; Upper Chesapeake Medical Center was formerly Fallston General Hospital; Chester River Hospital Center was formerly Kent and Queen Anne's Hospital.

Source: Maryland Hospital Discharge Abstract

**Table A-8(a). Trend in Obstetric Average Length of Stay,
by Jurisdiction of Hospitalization: Maryland, 1980 - 2003**

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany County	3.67	2.30	1.86	2.03	2.12	2.14	2.18	2.19	2.22	2.24	2.20
Anne Arundel County	3.62	2.72	1.66	1.89	2.33	2.39	2.41	2.51	2.58	2.50	2.63
Baltimore City	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02	3.07	3.07
Baltimore County	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02	2.97	3.04
Calvert County	3.87	2.45	1.84	2.00	2.19	2.13	2.16	2.21	2.31	2.36	2.36
Carroll County	3.44	2.58	1.56	1.90	2.33	2.27	2.35	2.36	2.43	2.47	2.47
Cecil County	3.15	2.04	1.53	1.71	1.85	1.93	1.93	1.97	2.21	2.15	2.11
Charles County	3.64	2.42	2.09	2.28	2.75	2.26	2.29	2.29	2.33	2.49	2.44
Dorchester County	3.22	2.94	1.82	2.17	2.41	4.17	2.88	1.65	2.86	1.71	1.00
Frederick County	3.48	2.38	1.83	2.11	2.35	2.39	2.40	2.49	2.55	2.55	2.52
Garrett County	3.29	2.33	1.90	1.93	2.02	2.21	1.93	1.87	2.01	2.14	2.07
Harford County	3.81	1.97	1.32	1.50	1.65	1.72	1.70	1.88	2.21	2.23	2.36
Howard County	3.87	2.64	1.68	2.02	2.42	2.58	2.56	2.62	2.73	2.75	2.76
Kent County	3.99	2.57	1.82	2.07	2.39	2.31	2.54	2.54	2.39	2.61	2.46
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76	2.84	2.83
Prince George's County	4.00	2.73	2.12	2.45	2.60	2.64	2.62	2.59	2.60	2.63	2.64
Somerset County	3.96	2.50	1.00	-	3.00	3.00	1.50	4.00	2.25	-	-
St. Mary's County	2.95	2.28	1.72	1.89	2.08	2.13	2.08	2.11	2.18	2.17	2.20
Talbot County	2.98	2.53	1.62	1.92	2.29	2.20	2.30	2.31	2.27	2.35	2.28
Washington County	3.57	2.05	1.69	1.83	1.99	1.90	1.99	2.00	2.04	2.05	2.03
Wicomico County	3.45	2.82	1.98	2.37	2.42	2.38	2.46	2.50	2.53	2.48	2.56
Worcester County	-	-	2.17	2.30	-	2.20	1.00	3.00	2.50	1.00	1.33
MARYLAND TOTAL	3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74	2.76	2.77

**Table A-8(b). Trend in Obstetric Average Length of Stay,
by Region and Selected Jurisdiction: Maryland, 1980 - 2003**

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Western Maryland	3.56	2.25	1.80	1.99	2.16	2.16	2.18	2.23	2.28	2.30	2.26
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76	2.84	2.83
Southern Maryland	3.85	2.64	2.06	2.34	2.52	2.49	2.48	2.47	2.50	2.54	2.54
Central Maryland	4.04	2.82	2.18	2.43	2.69	2.71	2.75	2.79	2.89	2.89	2.92
Eastern Shore	3.34	2.66	1.81	2.15	2.29	2.26	2.33	2.37	2.40	2.39	2.41
State Total	3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74	2.76	2.77
Baltimore City	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02	3.07	3.07
Baltimore County	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02	2.97	3.04
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76	2.84	2.83
Prince George's County	4.00	2.73	2.12	2.45	2.60	2.64	2.62	2.59	2.60	2.63	2.64

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table A-9. Trends in Obstetric Average Length of Stay: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany	Frostburg Community Hospital	1.50	-									
	Memorial of Cumberland Hospital	3.98	2.42	1.92	2.19	2.19	2.15	2.26	2.18	2.22	2.24	2.20
	Sacred Heart Hospital	3.34	2.19	1.80	1.91	2.04	2.11	2.12	2.33	-	3.17	2.00
	Total	3.67	2.30	1.86	2.03	2.12	2.14	2.18	2.19	2.22	2.24	2.20
Frederick	Frederick Memorial Hospital	3.48	2.38	1.83	2.11	2.35	2.39	2.40	2.49	2.55	2.55	2.52
Garrett	Garrett County Memorial Hospital	3.29	2.33	1.90	1.93	2.02	2.21	1.93	1.87	2.01	2.14	2.07
Washington	Washington County Hospital	3.57	2.05	1.69	1.83	1.99	1.90	1.99	2.00	2.04	2.05	2.03
WESTERN MARYLAND TOTAL		3.56	2.25	1.80	1.99	2.16	2.16	2.18	2.23	2.28	2.30	2.26
Montgomery	Holy Cross Hospital	4.08	2.71	1.99	2.20	2.69	2.68	2.72	2.70	2.79	2.88	2.87
	Montgomery General Hospital	3.44	2.63	1.92	2.17	2.47	2.51	2.59	2.52	2.45	2.55	2.59
	Shady Grove Adventist Hospital	3.89	2.60	1.82	2.21	2.59	2.66	2.71	2.82	2.83	2.87	2.84
	Suburban Hospital	6.36	2.37	2.41	2.81	3.20	1.81	2.38	2.00	2.12	2.12	2.21
	Washington Adventist Hospital	3.59	2.77	1.95	2.22	2.49	2.49	2.64	2.58	2.66	2.75	2.77
MONTGOMERY COUNTY TOTAL		3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76	2.84	2.83
Calvert	Calvert Memorial Hospital	3.87	2.45	1.84	2.00	2.19	2.13	2.16	2.21	2.31	2.36	2.36
Charles	Civista Medical Center	3.64	2.42	2.09	2.28	2.75	2.26	2.29	2.29	2.33	2.49	2.44
Prince George's	Doctor's Community Hospital	6.10	3.24	2.05	2.33	2.29	2.20	2.24	1.96	1.52	2.00	1.59
	Fort Washington Medical Center	4.20	-	2.85	2.05	1.56	1.77	2.46	2.65	2.10	2.44	1.77
	Laurel Regional Hospital	3.21	2.47	1.93	2.11	2.45	2.54	2.47	2.46	2.41	2.48	2.55
	Leland Memorial Hospital	5.43	3.15									
	Prince George's Hospital Center	3.97	2.82	2.20	2.58	2.75	2.79	2.79	2.83	2.85	2.79	2.72
	Southern Maryland Hospital Center	4.04	2.61	2.03	2.35	2.40	2.41	2.41	2.24	2.26	2.42	2.56
	Total	4.00	2.73	2.12	2.45	2.60	2.64	2.62	2.59	2.60	2.63	2.64
St. Mary's	St. Mary's Hospital	2.95	2.28	1.72	1.89	2.08	2.13	2.08	2.11	2.18	2.17	2.20
SOUTHERN MARYLAND TOTAL		3.85	2.64	2.06	2.34	2.52	2.49	2.48	2.47	2.50	2.54	2.54
Anne Arundel	Anne Arundel Medical Center	3.60	2.72	1.66	1.88	2.34	2.39	2.41	2.51	2.59	2.50	2.63
	North Arundel Hospital	5.33	3.57	1.88	2.22	1.84	2.47	2.41	1.84	1.56	2.16	1.93
	Total	3.62	2.72	1.66	1.89	2.33	2.39	2.41	2.51	2.58	2.50	2.63
Baltimore County	Franklin Square Hospital	3.80	2.74	2.12	2.35	2.57	2.67	2.59	2.62	2.74	2.69	2.73
	Greater Baltimore Medical Center	4.44	2.63	2.09	2.51	2.79	2.89	2.91	2.95	3.25	2.86	2.85
	Northwest Hospital Center	5.00	2.82	1.71	2.00	2.08	2.12	1.81	2.00	1.72	3.05	3.12
	St. Joseph Hospital	3.89	2.66	2.30	2.38	2.80	2.64	2.76	2.85	2.90	2.95	3.09
	Total	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02	2.97	3.04
Baltimore City	Bon Secours Hospital	5.52	3.83	2.00	2.70	2.70	1.60	1.80	2.43	3.64	1.63	2.67
	Childrens Hospital	-	-	-	-	1.00	-	-				
	Church Hospital	6.59	2.38	1.75	1.57	3.14	2.50	1.17				
	Good Samaritan Hospital	1.00	3.50	2.29	1.93	3.87	2.48	1.69	2.39	2.25	2.76	2.36
	Harbor Hospital	3.90	2.44	1.94	2.21	2.62	2.44	2.52	2.61	2.45	2.52	2.53
	Homewood North/Wyman Park	-	4.00									
	Homewood South/North Charles	3.50	3.41									

Table A-9. Trends in Obstetric Average Length of Stay: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Carroll Harford Howard	Johns Hopkins Bayview Medical Ctr.	4.02	3.43	2.40	2.58	2.73	2.90	3.02	3.13	3.12	2.99	3.20
	Johns Hopkins Hospital	4.77	3.28	3.03	3.19	3.55	3.43	3.29	3.27	3.66	3.62	3.47
	Kernan Hospital	-	-	-	-	-	-	-	-	-	-	-
	Liberty Medical Center	5.80	3.00	3.39	3.93	3.00	2.72	1.00				
	Maryland General Hospital	4.34	2.48	1.94	2.25	2.59	2.65	2.62	2.83	2.71	2.82	2.65
	Mercy Medical Center	4.12	2.97	2.49	2.59	2.75	2.79	2.87	2.88	3.02	3.02	3.02
	Provident Hospital	4.47	-									
	Sinai Hospital of Baltimore	3.96	2.77	2.33	2.47	2.67	2.76	2.96	2.99	2.91	3.04	3.03
	St. Agnes Hospital	3.71	2.61	2.29	2.85	2.87	2.79	2.95	2.96	3.07	3.20	3.26
	Union Memorial Hospital	4.11	2.81	2.26	2.50	2.70	2.64	2.37	2.46	2.57	2.57	2.50
	University of Maryland	3.91	3.59	3.02	2.96	2.93	3.02	3.37	3.17	3.29	3.52	3.38
	Total	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02	3.07	3.07
	Carroll County General Hospital	3.44	2.58	1.56	1.90	2.33	2.27	2.35	2.36	2.43	2.47	2.47
	Upper Chesapeake Medical Center	4.29	3.00	1.67	2.17	2.71	1.78	1.67	2.08	2.20	2.23	2.36
	Harford Memorial Hospital	3.80	1.96	1.32	1.49	1.64	1.72	1.70	1.82	2.75	2.50	2.81
	Total	3.81	1.97	1.32	1.50	1.65	1.72	1.70	1.88	2.21	2.23	2.36
Howard	Howard County General Hospital	3.87	2.64	1.68	2.02	2.42	2.58	2.56	2.62	2.73	2.75	2.76
CENTRAL MARYLAND TOTAL		4.04	2.82	2.18	2.43	2.69	2.71	2.75	2.79	2.89	2.89	2.92
Cecil	Union Hospital of Cecil	3.15	2.04	1.53	1.71	1.85	1.93	1.93	1.97	2.21	2.15	2.11
Dorchester	Dorchester General Hospital	3.22	2.94	1.82	2.17	2.41	4.17	2.88	1.65	2.86	1.71	1.00
Kent	Chester River Hospital Center*	3.99	2.57	1.82	2.07	2.39	2.31	2.54	2.54	2.39	2.61	2.46
Somerset	E. W. McCready Memorial Hospital	3.96	2.50	1.00	-	3.00	3.00	1.50	4.00	2.25	-	-
Talbot	Memorial Hospital at Easton	2.98	2.53	1.62	1.92	2.29	2.20	2.30	2.31	2.27	2.35	2.28
Wicomico	Peninsula Regional Medical Center	3.45	2.82	1.98	2.37	2.42	2.38	2.46	2.50	2.53	2.48	2.56
Worcester	Atlantic General Hospital			2.17	2.30	-	2.20	1.00	3.00	2.50	1.00	1.33
EASTERN SHORE TOTAL		3.34	2.66	1.81	2.15	2.29	2.26	2.33	2.37	2.40	2.39	2.41
MARYLAND TOTAL		3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74	2.76	2.77

*Note: formerly Kent and Queen Anne's Hospital
Source: Maryland Hospital Discharge Abstract

Table A-10(a). Trend in Obstetric Average Daily Census, by Jurisdiction: Maryland, 1980 - 2003

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany County	19.2	9.0	6.5	7.1	7.1	7.0	6.6	6.9	6.8	6.9	6.9
Anne Arundel County	21.9	24.2	14.7	17.2	22.3	25.2	28.3	31.4	34.2	33.1	37.7
Baltimore City	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5	139.5	135.3
Baltimore County	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8	80.3	87.4
Calvert County	5.4	5.1	4.2	4.6	5.1	5.2	4.8	5.4	5.5	6.2	6.2
Carroll County	7.2	4.9	3.8	5.1	7.2	7.8	8.3	8.7	9.1	8.9	9.4
Cecil County	4.3	2.8	3.1	3.5	3.7	3.8	4.2	4.0	4.6	4.7	4.0
Charles County	5.2	3.4	4.4	3.3	5.6	5.8	6.4	7.0	6.6	7.5	8.3
Dorchester County	3.3	3.2	1.4	1.7	0.9	0.1	0.1	0.1	0.1	0.0	0.0
Frederick County	12.0	14.0	10.6	12.1	13.7	13.7	12.9	15.1	15.8	16.4	16.1
Garrett County	3.6	2.7	1.8	1.8	2.0	1.9	1.8	1.6	1.5	1.6	1.7
Harford County	11.1	4.6	2.8	3.4	3.6	3.9	3.4	4.0	7.2	8.3	9.4
Howard County	12.8	20.6	15.6	17.7	19.8	21.5	21.7	23.8	25.3	25.2	27.6
Kent County	3.3	2.0	1.2	1.3	1.7	1.5	1.8	1.9	1.5	1.8	1.9
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0	125.6	129.0
Prince George's County	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3	43.3	46.0
Somerset County	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Mary's County	5.3	5.8	3.7	4.5	5.2	4.8	5.1	5.0	5.3	5.8	6.1
Talbot County	7.8	8.4	3.9	4.2	6.3	6.4	6.9	7.3	7.0	7.0	6.8
Washington County	16.8	10.0	8.1	8.5	9.6	9.2	9.9	9.9	10.3	11.0	11.0
Wicomico County	18.3	18.9	11.7	14.8	14.7	14.1	15.5	16.1	16.2	15.2	16.1
Worcester County	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MARYLAND TOTAL	605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5	548.2	566.9

Table A-10(b). Trend in Obstetric Average Daily Census, by Region and Selected Jurisdiction: Maryland, 1980 - 2003

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Western Maryland	51.6	35.7	26.9	29.6	32.5	31.8	31.2	33.5	34.4	35.8	35.7
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0	125.6	129.0
Southern Maryland	67.5	62.5	50.5	58.5	59.5	58.8	59.6	60.0	59.8	62.7	66.5
Central Maryland	370.9	347.0	226.2	244.7	265.0	275.0	279.6	289.5	298.0	295.3	306.8
Eastern Shore	35.3	32.1	19.9	23.9	26.5	25.9	28.4	29.3	29.4	28.7	28.8
State Total	605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5	548.2	566.9
Baltimore City	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5	139.5	135.3
Baltimore County	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8	80.3	87.4
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0	125.6	129.0
Prince George's County	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3	43.3	46.0

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table A-11. Trends in Obstetric Average Daily Census: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany	Frostburg Hospital	0.01	0.0									
	Memorial of Cumberland Hospital	10.8	4.6	3.1	3.4	3.8	3.6	3.0	6.5	6.8	6.8	6.9
	Sacred Heart Hospital	8.4	4.4	3.5	3.7	3.3	3.4	3.7	0.3	0.0	0.1	0.0
	Total	19.2	9.0	6.5	7.1	7.1	7.0	6.6	6.9	6.8	6.9	6.9
Frederick	Frederick Memorial Hospital	12.0	14.0	10.6	12.1	13.7	13.7	12.9	15.1	15.8	16.4	16.1
Garrett	Garrett County Memorial Hospital	3.6	2.7	1.8	1.8	2.0	1.9	1.8	1.6	1.5	1.6	1.7
Washington	Washington County Hospital	16.8	10.0	8.1	8.5	9.6	9.2	9.9	9.9	10.3	11.0	11.0
WESTERN MARYLAND TOTAL		51.6	35.7	26.9	29.6	32.5	31.8	31.2	33.5	34.4	35.8	35.7
Montgomery	Holy Cross Hospital	46.1	61.4	43.7	49.2	54.6	52.6	54.4	58.0	60.8	61.8	63.2
	Montgomery General Hospital	11.5	8.8	5.7	6.2	6.4	6.5	6.5	5.7	5.2	6.4	7.0
	Shady Grove Adventist Hospital	0.2	35.0	23.3	28.0	34.0	37.4	38.6	39.1	38.4	38.4	39.6
	Suburban Hospital	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	Washington Adventist Hospital	18.7	18.8	12.4	13.9	15.5	15.9	17.8	17.9	18.4	18.9	19.1
MONTGOMERY COUNTY TOTAL		76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0	125.6	129.0
Calvert Charles Prince George's	Calvert Memorial Hospital	5.4	5.1	4.2	4.6	5.1	5.2	4.8	5.4	5.5	6.2	6.2
	Civista Medical Center	5.2	3.4	4.4	3.3	5.6	5.8	6.4	7.0	6.6	7.5	8.3
	Doctor's Community Hospital	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.2
	Fort Washington Medical Center	0.1	0.0	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1
	Laurel Regional Hospital	0.1	4.5	4.2	5.0	5.7	6.4	6.7	5.6	4.3	4.9	6.0
	Leland Memorial	0.2	0.2									
	Prince George's Hospital Center	35.1	29.4	24.0	27.5	25.5	25.0	24.0	25.7	25.7	25.3	26.6
	Southern Maryland Hospital Center	15.6	13.6	9.7	13.2	12.2	11.5	12.3	11.2	12.0	12.5	13.1
	Total	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3	43.3	46.0
St. Mary's	St. Mary's Hospital	5.3	5.8	3.7	4.5	5.2	4.8	5.1	5.0	5.3	5.8	6.1
SOUTHERN MARYLAND TOTAL		67.5	62.5	50.5	58.5	59.5	58.8	59.6	60.0	59.8	62.7	66.5
Anne Arundel	Anne Arundel Medical Center	21.6	23.8	14.6	17.0	22.2	25.0	28.1	31.2	34.0	32.9	37.5
	North Arundel Hospital	0.3	0.4	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
	Total	21.9	24.2	14.7	17.2	22.3	25.2	28.3	31.4	34.2	33.1	37.7
Baltimore County	Franklin Square Hospital	26.1	33.5	20.4	19.3	19.8	21.7	21.5	23.7	22.5	0.3	0.2
	Greater Baltimore Medical Center	35.1	38.0	35.0	41.5	42.1	42.5	40.4	41.3	41.5	22.0	23.3
	Northwest Hospital Center	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.1	39.8	42.7
	St. Joseph Hospital	29.0	17.1	12.0	14.2	18.5	18.1	18.9	18.5	18.6	18.3	21.1
	Total	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8	80.3	87.4
Baltimore City	Bon Secours Hospital	0.5	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0
	Childrens Hospital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Church Hospital	0.4	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	
	Good Samaritan Hospital	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2
	Harbor Hospital	20.0	16.9	10.6	10.5	11.6	11.8	13.3	15.0	13.5	13.2	13.1
	Homewood North/Wyman Park	0.0	0.0									
	Homewood South/North Charles	0.0	0.3									

Table A-11. Trends in Obstetric Average Daily Census: Maryland Hospitals, 1980 - 2003

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Carroll Harford Howard	Johns Hopkins Bayview Medical Ctr.	14.0	12.9	7.5	9.0	9.6	11.1	11.4	11.6	11.8	11.9	12.7
	Johns Hopkins Hospital	44.0	38.0	21.5	20.1	22.0	20.7	20.2	19.8	23.1	21.6	22.2
	Kernan Hospital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Liberty Medical Center	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	
	Maryland General Hospital	14.8	7.9	3.8	3.8	4.3	6.3	7.0	9.2	8.4	9.2	8.9
	Mercy Medical Center	19.1	26.9	16.4	20.2	24.0	25.5	26.5	25.9	25.2	22.0	22.8
	Provident Hospital	9.5	0.0									
	Sinai Hospital of Baltimore	42.5	34.9	21.1	20.7	18.3	18.4	19.1	20.5	18.5	20.3	20.1
	St. Agnes Hospital	25.2	22.2	14.4	18.7	19.9	18.7	18.3	17.0	17.7	18.0	18.3
	Union Memorial Hospital	13.9	15.3	7.8	7.4	6.7	6.9	5.9	5.3	6.1	6.8	1.8
	University of Maryland	23.5	28.2	18.2	15.4	14.6	14.3	14.9	13.4	14.9	16.3	15.2
	Total	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5	139.5	135.3
	Carroll County General Hospital	7.2	4.9	3.8	5.1	7.2	7.8	8.3	8.7	9.1	8.9	9.4
	Upper Chesapeake Medical Center	0.1	0.1	0.0	0.0	0.1	0.0	0.1	1.0	7.1	8.3	9.2
	Harford Memorial Hospital	11.0	4.5	2.8	3.4	3.5	3.9	3.4	3.0	0.0	0.0	0.1
	Total	11.1	4.6	2.8	3.4	3.6	3.9	3.4	4.0	7.2	8.3	9.4
	Howard County General Hospital	12.8	20.6	15.6	17.7	19.8	21.5	21.7	23.8	25.3	25.2	27.6
CENTRAL MARYLAND TOTAL		370.9	347.0	226.2	244.7	265.0	275.0	279.6	289.5	298.0	295.3	306.8
Cecil	Union Hospital of Cecil	4.3	2.8	3.1	3.5	3.7	3.8	4.2	4.0	4.6	4.7	4.0
Dorchester	Dorchester General Hospital	3.3	3.2	1.4	1.7	0.9	0.1	0.1	0.1	0.1	0.0	0.0
Kent	Chester River Hospital Center*	3.3	2.0	1.2	1.3	1.7	1.5	1.8	1.9	1.5	1.8	1.9
Somerset	E. W. McCready Memorial Hospital	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Talbot	Memorial Hospital at Easton	7.8	8.4	3.9	4.2	6.3	6.4	6.9	7.3	7.0	7.0	6.8
Wicomico	Peninsula Regional Medical Center	18.3	18.9	11.7	14.8	14.7	14.1	15.5	16.1	16.2	15.2	16.1
Worcester	Atlantic General Hospital	-	-	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EASTERN SHORE TOTAL		38.7	35.3	21.3	25.6	27.4	26.0	28.4	29.4	29.4	28.7	28.8
MARYLAND TOTAL		605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5	548.2	566.9

*Note: formerly Kent and Queen Anne's Hospital

Source: Maryland Hospital Discharge Abstract

**Table A-12(a). Trends in Obstetric Services Average Charge Per Case,
by Jurisdiction of Hospitalization: Maryland, 1980 - 2003**

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany County	\$674	\$2,082	\$2,898	\$3,119	\$3,245	\$3,320	\$3,274	\$3,806	\$4,075	\$3,912	\$4,227
Anne Arundel County	\$956	\$2,018	\$2,653	\$3,030	\$3,652	\$3,774	\$3,652	\$3,553	\$3,710	\$3,980	\$4,161
Baltimore City	\$1,387	\$2,688	\$3,720	\$3,870	\$3,983	\$4,129	\$4,547	\$4,769	\$4,968	\$5,488	\$5,763
Baltimore County	\$1,236	\$2,194	\$2,937	\$3,064	\$3,270	\$3,563	\$3,667	\$3,801	\$3,843	\$3,975	\$4,203
Calvert County	\$1,003	\$2,001	\$2,591	\$2,659	\$2,899	\$2,981	\$3,041	\$3,110	\$3,162	\$3,451	\$3,713
Carroll County	\$849	\$2,284	\$2,279	\$2,526	\$2,920	\$3,034	\$3,391	\$3,745	\$3,912	\$3,967	\$4,364
Cecil County	\$753	\$2,288	\$2,588	\$2,816	\$3,035	\$3,544	\$3,310	\$3,235	\$3,723	\$4,735	\$5,452
Charles County	\$991	\$1,614	\$2,278	\$2,781	\$3,289	\$3,582	\$3,100	\$2,837	\$3,113	\$3,114	\$3,210
Dorchester County	\$745	\$2,240	\$2,179	\$2,744	\$3,205	\$3,127	\$3,038	\$2,361	\$2,659	\$2,150	\$3,204
Frederick County	\$735	\$1,751	\$2,397	\$2,557	\$2,666	\$2,622	\$2,661	\$2,568	\$2,959	\$2,977	\$2,947
Garrett County	\$634	\$2,087	\$2,216	\$2,586	\$2,430	\$2,692	\$3,077	\$2,976	\$3,228	\$3,947	\$4,178
Harford County	\$797	\$1,638	\$2,559	\$2,980	\$2,935	\$2,828	\$2,765	\$3,341	\$3,409	\$4,566	\$6,373
Howard County	\$1,453	\$2,210	\$2,601	\$3,152	\$3,492	\$3,293	\$3,252	\$3,341	\$3,443	\$3,524	\$3,842
Kent County	\$954	\$2,649	\$3,074	\$3,538	\$3,823	\$3,601	\$3,149	\$4,101	\$5,277	\$2,720	\$3,158
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528	\$3,915	\$4,322
Prince George's County	\$1,210	\$2,596	\$3,332	\$3,672	\$3,716	\$3,621	\$3,855	\$3,896	\$4,004	\$4,051	\$4,270
Somerset County	\$1,043	\$2,333	\$2,181	\$0	\$5,331	\$5,252	\$12,297	\$9,626	\$5,615	\$0	\$10,376
St. Mary's County	\$783	\$1,862	\$2,498	\$2,853	\$3,106	\$3,263	\$3,369	\$3,347	\$3,689	\$3,758	\$3,569
Talbot County	\$1,038	\$1,658	\$2,329	\$2,693	\$3,207	\$3,338	\$3,543	\$3,551	\$3,518	\$4,074	\$3,885
Washington County	\$687	\$1,964	\$2,338	\$2,583	\$2,814	\$2,512	\$2,510	\$2,552	\$2,757	\$2,901	\$2,989
Wicomico County	\$985	\$1,745	\$2,308	\$2,584	\$3,070	\$3,159	\$3,225	\$3,203	\$3,164	\$3,447	\$3,915
Worcester County	\$0	\$0	\$1,927	\$3,130	\$0	\$2,898	\$4,881	\$4,271	\$1,797	\$2,783	\$2,135
MARYLAND TOTAL	\$1,192	\$2,276	\$3,013	\$3,260	\$3,518	\$3,560	\$3,696	\$3,785	\$3,916	\$4,208	\$4,487

**Table A-12(b). Trends in Obstetric Services Average Charge Per Case,
by Region and Selected Jurisdiction: Maryland, 1980 - 2003**

Regions/ Selected Jurisdictions	1980	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Western Maryland	\$690	\$1,923	\$2,485	\$2,699	\$2,827	\$2,746	\$2,766	\$2,843	\$3,130	\$3,180	\$3,280
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528	\$3,915	\$4,322
Southern Maryland	\$1,131	\$2,407	\$3,101	\$3,447	\$3,535	\$3,517	\$3,640	\$3,633	\$3,782	\$3,842	\$4,003
Central Maryland	\$1,294	\$2,450	\$3,232	\$3,430	\$3,640	\$3,791	\$4,007	\$4,156	\$4,282	\$4,629	\$4,905
Eastern Shore	\$948	\$1,874	\$2,395	\$2,706	\$3,145	\$3,296	\$3,319	\$3,348	\$3,459	\$3,792	\$4,102
State Total	\$1,192	\$2,276	\$3,013	\$3,260	\$3,518	\$3,560	\$3,695	\$3,785	\$3,916	\$4,208	\$4,487
Baltimore City	\$1,387	\$2,688	\$3,720	\$3,870	\$3,983	\$4,129	\$4,545	\$4,769	\$4,968	\$5,488	\$5,763
Baltimore County	\$1,236	\$2,194	\$2,937	\$3,064	\$3,270	\$3,563	\$3,666	\$3,801	\$3,843	\$3,975	\$4,203
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528	\$3,915	\$4,322
Prince George's County	\$1,210	\$2,596	\$3,332	\$3,672	\$3,716	\$3,621	\$3,854	\$3,896	\$4,004	\$4,051	\$4,270

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Hospital Discharge Abstract

Table A-13. Trend in Obstetric Services Average Charge Per Case: Maryland Hospitals, 1990 - 2003

Region/ Jurisdiction	Hospital	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Allegany	Frostburg Hospital, Inc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Memorial of Cumberland Hospital	\$2,106	\$3,447	\$3,728	\$3,650	\$3,598	\$3,870	\$3,867	\$4,075	\$3,923	\$4,228
	Sacred Heart Hospital	\$2,059	\$2,444	\$2,636	\$2,803	\$3,029	\$2,825	\$2,507	\$0	\$1,852	\$3,601
	Total	\$2,082	\$2,898	\$3,119	\$3,245	\$3,320	\$3,274	\$3,806	\$4,075	\$3,912	\$4,227
Frederick	Frederick Memorial Hospital	\$1,751	\$2,397	\$2,557	\$2,666	\$2,622	\$2,661	\$2,568	\$2,959	\$2,977	\$2,947
Garrett	Garrett Co. Memorial Hospital	\$2,087	\$2,216	\$2,586	\$2,430	\$2,692	\$3,077	\$2,976	\$3,228	\$3,947	\$4,178
Washington	Washington County Hospital	\$1,964	\$2,338	\$2,583	\$2,814	\$2,512	\$2,510	\$2,552	\$2,757	\$2,901	\$2,989
WESTERN MARYLAND AVERAGE		\$1,923	\$2,485	\$2,699	\$2,827	\$2,746	\$2,766	\$2,843	\$3,130	\$3,180	\$3,280
Montgomery	Holy Cross Hospital	\$1,957	\$2,811	\$3,080	\$3,502	\$3,297	\$3,245	\$3,404	\$3,572	\$3,838	\$4,321
	Montgomery General Hospital	\$2,752	\$2,504	\$2,940	\$3,283	\$3,599	\$3,611	\$3,584	\$3,774	\$3,949	\$3,774
	Shady Grove Adventist Hospital	\$1,849	\$2,905	\$3,197	\$3,579	\$3,330	\$3,340	\$3,288	\$3,318	\$3,714	\$4,209
	Suburban Hospital	\$2,596	\$3,463	\$4,978	\$5,504	\$5,111	\$4,636	\$3,658	\$3,947	\$4,430	\$4,145
	Washington Adventist Hospital	\$1,942	\$2,654	\$3,090	\$3,919	\$3,693	\$3,954	\$3,837	\$3,725	\$4,528	\$4,766
MONTGOMERY COUNTY TOTAL		\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528	\$3,915	\$4,322
Calvert Charles Prince George's	Calvert Memorial Hospital	\$2,001	\$2,591	\$2,659	\$2,899	\$2,981	\$3,041	\$3,110	\$3,162	\$3,451	\$3,713
	Civista Medical Center	\$1,614	\$2,278	\$2,781	\$3,289	\$3,582	\$3,100	\$2,837	\$3,113	\$3,114	\$3,210
	Doctor's Community Hospital	\$2,141	\$2,977	\$4,362	\$4,198	\$3,905	\$4,376	\$4,003	\$4,018	\$3,941	\$3,464
	Fort Washington Medical Center	\$0	\$3,484	\$3,096	\$3,144	\$4,095	\$4,464	\$3,533	\$4,248	\$4,165	\$4,340
	Laurel Regional Medical Center	\$1,877	\$3,760	\$3,106	\$3,229	\$3,723	\$4,324	\$4,216	\$4,124	\$5,156	\$5,472
	Leland Memorial Hospital	\$1,824	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Prince George's Hospital Center	\$2,841	\$3,266	\$3,566	\$3,388	\$3,488	\$3,517	\$3,607	\$3,667	\$3,548	\$3,624
	Southern Maryland Hosp. Ctr.	\$2,382	\$3,293	\$4,111	\$4,533	\$3,811	\$4,165	\$4,279	\$4,533	\$4,509	\$4,971
	Total	\$2,596	\$3,332	\$3,672	\$3,716	\$3,621	\$3,855	\$3,896	\$4,004	\$4,051	\$4,270
St. Mary's	St. Mary's Hospital	\$1,862	\$2,498	\$2,853	\$3,106	\$3,263	\$3,369	\$3,347	\$3,689	\$3,758	\$3,569
SOUTHERN MARYLAND TOTAL		\$2,407	\$3,101	\$3,447	\$3,535	\$3,517	\$3,640	\$3,633	\$3,782	\$3,842	\$4,003
Anne Arundel	Anne Arundel Medical Center	\$2,011	\$2,644	\$3,022	\$3,650	\$3,772	\$3,647	\$3,547	\$3,706	\$3,977	\$4,160
	North Arundel Hospital	\$2,634	\$3,776	\$4,154	\$3,956	\$4,422	\$4,500	\$4,296	\$4,215	\$4,519	\$4,434
	Total	\$2,018	\$2,653	\$3,030	\$3,652	\$3,774	\$3,652	\$3,553	\$3,710	\$3,980	\$4,161
Baltimore County	Northwest Hospital Center	\$2,302	\$3,550	\$3,409	\$3,645	\$4,434	\$3,961	\$4,323	\$4,203	\$5,048	\$4,359
	Franklin Square Hospital	\$2,436	\$3,476	\$3,142	\$3,202	\$3,570	\$3,981	\$4,254	\$4,403	\$4,569	\$4,598
	Greater Baltimore Medical Center	\$1,831	\$2,667	\$2,968	\$3,323	\$3,767	\$3,725	\$3,749	\$3,747	\$3,820	\$3,908
	St. Joseph Hospital	\$2,544	\$2,803	\$3,220	\$3,225	\$3,108	\$3,166	\$3,274	\$3,316	\$3,549	\$4,319
	Total	\$2,194	\$2,937	\$3,064	\$3,270	\$3,563	\$3,667	\$3,801	\$3,843	\$3,975	\$4,203
Baltimore City	Bon Secours Hospital	\$3,366	\$4,250	\$5,081	\$5,751	\$6,135	\$4,327	\$3,974	\$7,858	\$3,432	\$4,115
	Childrens Hospital	\$0	\$0	\$0	\$1,315	\$0	\$0	\$0	\$0	\$0	\$0
	Church Hospital	\$2,299	\$3,661	\$4,113	\$5,493	\$4,230	\$4,495	\$0	\$0	\$0	\$0
	Good Samaritan Hospital	\$2,895	\$4,087	\$3,263	\$5,154	\$3,515	\$3,182	\$4,526	\$3,741	\$4,443	\$5,486
	Harbor Hospital	\$2,560	\$3,377	\$3,722	\$4,154	\$3,698	\$3,778	\$3,994	\$3,714	\$4,018	\$4,062
	Homewood/North Wyman Park	\$1,778	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Homewood/South Charles	\$2,818	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Table A-13. Trend in Obstetric Services Average Charge Per Case: Maryland Hospitals, 1990 - 2003

Region/ Jurisdiction	Hospital	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Carroll Harford Howard	Johns Hopkins Bayview Medical Ctr.	\$3,553	\$4,345	\$4,273	\$4,334	\$4,590	\$4,776	\$5,053	\$5,003	\$5,574	\$6,221
	Johns Hopkins Hospital	\$2,961	\$4,697	\$5,344	\$5,259	\$4,987	\$4,572	\$4,861	\$5,464	\$6,887	\$7,150
	Kernan Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Liberty Medical Center	\$3,506	\$4,983	\$4,583	\$4,036	\$4,836	\$3,611	\$0	\$0	\$0	\$0
	Maryland General Hospital	\$2,643	\$3,055	\$3,135	\$4,779	\$5,593	\$5,889	\$6,152	\$6,238	\$6,912	\$6,105
	Mercy Medical Center	\$2,421	\$3,361	\$3,620	\$3,406	\$3,507	\$4,144	\$4,422	\$4,536	\$4,793	\$4,256
	Provident Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sinai Hospital of Baltimore	\$2,317	\$3,131	\$3,346	\$3,646	\$4,189	\$4,542	\$4,712	\$4,559	\$5,125	\$6,049
	St. Agnes Hospital	\$2,677	\$3,306	\$3,219	\$3,432	\$3,476	\$4,661	\$4,427	\$4,848	\$4,410	\$5,728
	Union Memorial Hospital	\$2,407	\$3,782	\$3,883	\$4,026	\$4,447	\$4,144	\$5,151	\$5,313	\$5,577	\$5,584
	University of Maryland Hospital	\$3,104	\$4,431	\$4,202	\$3,924	\$4,222	\$5,349	\$5,485	\$6,246	\$7,162	\$7,278
	Total	\$2,688	\$3,720	\$3,870	\$3,983	\$4,129	\$4,547	\$4,769	\$4,968	\$5,488	\$5,763
	Carroll County General Hospital	\$2,284	\$2,279	\$2,526	\$2,920	\$3,034	\$3,391	\$3,745	\$3,912	\$3,967	\$4,364
	Upper Chesapeake Medical Center	\$2,283	\$2,401	\$3,141	\$4,443	\$2,636	\$2,932	\$2,850	\$3,403	\$4,571	\$6,400
	Harford Memorial Hospital	\$1,629	\$2,560	\$2,978	\$2,921	\$2,830	\$2,762	\$3,482	\$4,997	\$3,538	\$3,974
	Total	\$1,638	\$2,559	\$2,980	\$2,935	\$2,828	\$2,765	\$3,341	\$3,409	\$4,566	\$6,373
	Howard Co. General Hospital	\$2,210	\$2,601	\$3,152	\$3,492	\$3,293	\$3,252	\$3,341	\$3,443	\$3,524	\$3,842
CENTRAL MARYLAND TOTAL		\$2,450	\$3,232	\$3,430	\$3,640	\$3,791	\$4,007	\$4,156	\$4,282	\$4,629	\$4,905
Cecil	Union Hospital of Cecil	\$2,288	\$2,588	\$2,816	\$3,035	\$3,544	\$3,310	\$3,235	\$3,723	\$4,735	\$5,452
Dorchester	Dorchester General Hospital	\$2,240	\$2,179	\$2,744	\$3,205	\$3,127	\$3,038	\$2,361	\$2,659	\$2,150	\$3,204
Kent	Chester River Hospital Center*	\$2,649	\$3,074	\$3,538	\$3,823	\$3,601	\$3,149	\$4,101	\$5,277	\$2,720	\$3,158
Somerset	E.W. McCready Memorial Hospital	\$2,333	\$2,181	\$0	\$5,331	\$5,252	\$12,297	\$9,626	\$5,615	\$0	\$10,376
Talbot	Memorial Hospital at Easton	\$1,658	\$2,329	\$2,693	\$3,207	\$3,338	\$3,543	\$3,551	\$3,518	\$4,074	\$3,885
Wicomico	Peninsula Regional Medical Center	\$1,745	\$2,308	\$2,584	\$3,070	\$3,159	\$3,225	\$3,203	\$3,164	\$3,447	\$3,915
Worcester	Atlantic General Hospital	\$0	\$1,927	\$3,130	\$0	\$2,898	\$4,881	\$4,271	\$1,797	\$2,783	\$2,135
EASTERN SHORE TOTAL		\$1,874	\$2,395	\$2,706	\$3,145	\$3,296	\$3,319	\$3,348	\$3,459	\$3,792	\$4,102
MARYLAND TOTAL		\$2,276	\$3,013	\$3,260	\$3,518	\$3,560	\$3,696	\$3,785	\$3,916	\$4,208	\$4,487

*Note: formerly Kent and Queen Anne's Hospital
Source: Maryland Hospital Discharge Abstract

Table A-14(a). Trend in Hospital Obstetric Service Discharges by Payer Source: Maryland, 1990 - 2003

Payer	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Medicare	224	122	103	192	213	261	294	179	122	179
All Medicaid	20,397	20,404	20,586	18,332	19,380	21,653	23,716	24,782	26,338	27,240
Medicaid	20,397	17,931	18,236	14,205	4,990	5,216	5,186	5,919	6,127	6,748
Medicaid HMO	0	2,473	2,350	4,127	14,390	16,437	18,530	18,863	20,211	20,492
HMO	17,249	25,168	26,237	27,131	28,825	26,860	25,052	22,279	19,755	21,052
Blue Cross	13,827	9,796	9,940	9,760	9,569	10,206	11,436	12,943	14,183	14,329
Commercial	22,747	12,696	11,397	10,606	10,084	10,097	10,490	10,777	10,509	9,908
Self Pay	5,596	3,758	2,762	2,755	2,044	1,499	1,327	810	803	929
No Charge	21	2	12	14	1	15	11	6	8	8
Other	1,123	696	801	1,039	675	865	738	819	1,001	996
Total	81,184	72,642	71,838	69,829	70,791	71,456	73,064	72,595	72,719	74,641

Table A-14(b). Trend in Hospital Obstetric Service Payer Mix by Payer Source: Maryland, 1990 - 2003

Payer	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003
Medicare	0.3%	0.2%	0.1%	0.3%	0.3%	0.4%	0.4%	0.2%	0.2%	0.2%
All Medicaid	25.1%	28.1%	28.7%	26.3%	27.4%	30.3%	32.5%	34.1%	36.2%	36.5%
HMO	21.2%	34.6%	36.5%	38.9%	40.7%	37.6%	34.3%	30.7%	27.2%	28.2%
Blue Cross	17.0%	13.5%	13.8%	14.0%	13.5%	14.3%	15.7%	17.8%	19.5%	19.2%
Commercial	28.0%	17.5%	15.9%	15.2%	14.2%	14.1%	14.4%	14.8%	14.5%	13.3%
Self Pay	6.9%	5.2%	3.8%	3.9%	2.9%	2.1%	1.8%	1.1%	1.1%	1.2%
No Charge	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	1.4%	1.0%	1.1%	1.5%	1.0%	1.2%	1.0%	1.1%	1.4%	1.3%

Notes: "Other" may include other government, Title V, workmen's comp, and payer unknown. In 1995, Medicaid HMO includes Medicaid MSO (90 cases).
Source: Maryland Hospital Discharge Abstract

Table A-15. Acute Care Obstetric Service Payer Mix, Percent of Cases by Payer: Maryland Hospitals, 2003

Region/ Jurisdiction	Hospital Name	SOURCE OF PAYMENT									TOTAL CASES
		Medicare	Medicaid	Medicaid HMO	HMO	Blue Cross	Commercial	Self Pay	No Charge	Other	
Allegany	Memorial of Cumberland Hospital	0.6%	11.5%	33.9%	20.6%	21.1%	11.0%	1.1%	0.0%	0.3%	1,148
	Sacred Heart	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1
	Total	0.6%	11.6%	33.9%	20.5%	21.1%	11.0%	1.1%	0.0%	0.3%	1,149
Frederick	Frederick Memorial Hospital	0.1%	5.5%	19.1%	47.8%	17.9%	5.6%	0.8%	0.0%	3.1%	2,331
Garrett	Garrett County Memorial Hospital	0.0%	13.7%	50.5%	13.4%	15.7%	4.3%	2.0%	0.0%	0.3%	299
Washington	Washington County Hospital	0.3%	2.8%	31.8%	26.3%	19.6%	16.9%	1.9%	0.0%	0.6%	1,987
WESTERN MARYLAND TOTAL		0.3%	6.2%	28.0%	33.2%	19.0%	10.5%	1.3%	0.0%	1.5%	5,766
Montgomery	Holy Cross Hospital	0.1%	21.2%	7.0%	45.4%	13.0%	11.3%	1.9%	0.0%	0.2%	8,035
	Montgomery General Hospital	1.0%	4.3%	24.9%	31.8%	13.4%	22.7%	1.5%	0.0%	0.4%	984
	Shady Grove Adventist Hospital	0.1%	4.4%	10.8%	41.2%	26.6%	16.0%	1.0%	0.0%	0.0%	5,093
	Suburban Hospital	0.0%	7.1%	0.0%	28.6%	21.4%	0.0%	42.9%	0.0%	0.0%	14
	Washington Adventist Hospital	0.2%	12.9%	29.1%	38.0%	9.1%	9.2%	0.8%	0.0%	0.8%	2,516
MONTGOMERY COUNTY TOTAL		0.2%	13.8%	12.5%	42.2%	16.6%	13.1%	1.4%	0.0%	0.2%	16,642
Calvert	Calvert Memorial Hospital	0.0%	1.4%	25.6%	38.1%	22.2%	6.5%	0.7%	0.0%	5.5%	956
Charles	Civista Medical Center	0.2%	4.4%	30.4%	19.0%	29.2%	15.7%	1.1%	0.0%	0.0%	1,241
Prince George's	Doctor's Community Hospital	0.0%	21.4%	10.7%	28.6%	17.9%	14.3%	7.1%	0.0%	0.0%	56
	Fort Washington Medical Center	0.0%	4.5%	18.2%	31.8%	27.3%	0.0%	13.6%	0.0%	4.5%	22
	Laurel Regional Hospital	0.2%	26.2%	31.2%	21.6%	8.7%	8.6%	0.9%	0.0%	2.4%	858
	Prince George's Hospital Center	0.2%	35.5%	41.1%	13.3%	3.3%	5.5%	1.0%	0.0%	0.0%	3,558
	Southern Maryland Hospital Center	0.3%	2.9%	30.5%	22.5%	24.1%	17.9%	1.8%	0.0%	0.0%	1,869
	Total	0.2%	24.5%	36.3%	17.3%	10.4%	9.6%	1.4%	0.0%	0.3%	6,363
St. Mary's	St. Mary's Hospital	0.2%	1.9%	30.8%	13.3%	12.5%	10.9%	2.0%	0.0%	28.3%	1,005
SOUTHERN MARYLAND TOTAL		0.2%	17.2%	33.9%	19.2%	14.2%	10.2%	1.3%	0.0%	3.8%	9,565
Anne Arundel	Anne Arundel Medical Center	0.1%	5.1%	13.8%	35.0%	24.9%	19.0%	0.7%	0.0%	1.5%	5,206
	North Arundel Hospital	0.0%	34.5%	13.8%	34.5%	0.0%	10.3%	3.4%	0.0%	3.4%	29
	Total	0.1%	5.3%	13.8%	35.0%	24.7%	19.0%	0.7%	0.0%	1.5%	5,235
Baltimore County	Franklin Square Hospital	0.3%	6.5%	43.1%	16.3%	18.3%	14.1%	0.1%	0.0%	1.3%	2,987
	Greater Baltimore Medical Center	0.1%	0.7%	6.1%	43.8%	33.2%	14.3%	0.4%	0.0%	1.3%	4,987
	Northwest Hospital Center	0.0%	15.2%	12.1%	21.2%	15.2%	12.1%	0.0%	0.0%	24.2%	33
	St. Joseph Hospital	0.2%	2.7%	14.2%	47.0%	18.3%	14.8%	0.4%	0.0%	2.3%	2,500
	Total	0.2%	2.9%	18.6%	36.7%	25.4%	14.3%	0.3%	0.0%	1.6%	10,507
Baltimore City	Bon Secours Hospital	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	3
	Good Samaritan Hospital	3.0%	21.2%	36.4%	21.2%	9.1%	9.1%	0.0%	0.0%	0.0%	33
	Harbor Hospital	0.2%	6.1%	44.3%	18.8%	15.5%	14.1%	0.7%	0.0%	0.3%	1,890
	Johns Hopkins Bayview Medical Ctr.	0.7%	20.0%	49.8%	12.0%	6.9%	3.6%	2.2%	0.0%	4.7%	1,454
	Johns Hopkins Hospital	0.4%	8.9%	51.3%	17.8%	13.1%	7.3%	0.2%	0.0%	1.0%	2,329
	Maryland General Hospital	0.6%	8.7%	76.2%	3.5%	5.8%	1.8%	3.3%	0.0%	0.0%	1,224
	Mercy Medical Center	0.6%	5.7%	58.0%	9.4%	16.6%	8.8%	0.7%	0.0%	0.3%	2,754

Table A-15. Acute Care Obstetric Service Payer Mix, Percent of Cases by Payer: Maryland Hospitals, 2003

Region/ Jurisdiction	Hospital Name	SOURCE OF PAYMENT									TOTAL CASES
		Medicare	Medicaid	Medicaid HMO	HMO	Blue Cross	Commercial	Self Pay	No Charge	Other	
Carroll Harford	Sinai Hospital of Baltimore	0.3%	5.7%	33.0%	17.5%	27.7%	14.8%	0.9%	0.0%	0.1%	2,424
	St. Agnes Hospital	0.4%	7.4%	30.9%	15.1%	19.9%	17.8%	8.1%	0.1%	0.3%	2,053
	Union Memorial Hospital	0.0%	15.2%	48.7%	8.0%	15.6%	8.4%	3.4%	0.0%	0.8%	263
	University of Maryland	0.3%	6.1%	58.4%	12.2%	12.7%	7.0%	2.4%	0.0%	0.9%	1,641
	Total	0.4%	8.2%	48.7%	13.7%	15.9%	10.1%	2.2%	0.0%	0.8%	16,068
	Carroll County General Hospital	0.4%	1.9%	24.9%	15.5%	28.7%	28.2%	0.4%	0.0%	0.0%	1,396
	Harford Memorial Hospital	0.0%	31.3%	18.8%	6.3%	25.0%	12.5%	0.0%	0.0%	6.3%	16
	Upper Chesapeake Medical Center	0.2%	2.9%	32.6%	18.3%	19.0%	19.3%	0.2%	0.0%	7.3%	1,429
	Total	0.2%	3.3%	32.5%	18.2%	19.1%	19.2%	0.2%	0.0%	7.3%	1,445
Howard	Howard County General Hospital	0.1%	5.4%	11.4%	28.0%	31.9%	22.3%	0.5%	0.0%	0.4%	3,650
CENTRAL MARYLAND TOTAL		0.3%	5.7%	30.6%	24.5%	21.8%	14.6%	1.2%	0.0%	1.3%	38,301
Cecil	Union Hospital of Cecil	0.3%	3.9%	45.5%	16.6%	18.5%	12.1%	2.4%	0.0%	0.7%	697
Dorchester	Dorchester General Hospital	0.0%	20.0%	40.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	5
Kent	Chester River Hospital Center*	0.0%	6.9%	39.1%	21.8%	20.1%	8.0%	2.1%	0.0%	2.1%	289
Somerset	Edward W. McCready	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1
Talbot	Memorial Hospital at Easton	0.3%	9.3%	40.7%	30.9%	11.4%	7.1%	0.3%	0.0%	0.0%	1,083
Wicomico	Peninsula Regional Medical Center	0.3%	5.9%	41.4%	16.5%	19.2%	15.9%	0.8%	0.0%	0.0%	2,289
Worcester	Atlantic General Hospital	0.0%	33.3%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	3
EASTERN SHORE TOTAL		0.3%	6.5%	41.7%	20.4%	17.2%	12.5%	1.0%	0.0%	0.3%	4,367
MARYLAND TOTAL		0.2%	9.0%	27.5%	28.2%	19.2%	13.3%	1.2%	0.0%	1.3%	74,641

*Note: formerly Kent and Queen Anne's Hospital
Source: Maryland Hospital Discharge Abstract

APPENDIX B:

Description of Forecast Methodology

Methodology for Forecasting Future Average Daily Census for Hospital Inpatient Obstetric Services.

The Commission uses the methodology described in this section to forecast future utilization of hospital inpatient obstetric services. The primary objective of this methodology is to provide a framework for rational decisions about future hospital inpatient obstetric services utilization.

Period of Time Covered. The base year from which the forecast is calculated is the most recent calendar year for which birth data from the Vital Statistics Administration are available. The target year to which the forecast is calculated is five years after the base year.

Service Definition. Forecasts are made for obstetric services based on patient records with principal diagnoses in DRGs 370-379 and 382-384. No forecasts are made for newborn services, and records with principal diagnoses in DRGs 385-391 are excluded from the calculations.

Assumptions. Future acute inpatient obstetric services average daily census is forecast by jurisdiction of utilization. The Commission bases utilization forecasts on projected trends in births, current patterns of migration, and expectations about average lengths of stay. Jurisdictional forecasts reflect changes in jurisdictional variations in average lengths of stay. Inter-jurisdictional and interstate patterns of migration from area of residence to jurisdiction of utilization remain constant from the base year to the target year.

Table B1 shows our projection of trends in average length of stay, which are adjusted on a county-specific basis and applied to forecasted discharges to yield the average daily census by jurisdiction. Target year statewide expected average lengths of stay are as follows:

Table B1. Projected Average Length of Stay

DRG Category	Target Year Expected Length of Stay	
	Minimum	Maximum
Cesarean Section Deliveries	4.00	4.10
All Other Obstetric Discharges	2.30	2.40

Data Sources. Base year estimates of births, by area of residence and jurisdiction of care, are obtained from the latest available complete year of resident and recorded births by area of residence and jurisdiction of care from the most recent Department of Health and Mental Hygiene tabulations of birth certificates. The latest available complete year of births to Maryland residents, by area of residence, in federal and military hospitals in Maryland are obtained from the most recent Department of Health and Mental Hygiene tabulations of birth certificates. Forecasts of future resident births to Maryland residents, by area of mother's residence are obtained from the most recent Maryland Department of Planning projections. Base

year utilization of Maryland hospital inpatient obstetric services, including age, principal diagnosis on admission and area of residence of each patient, are obtained from the Commission's hospital discharge abstract data.

Method of Calculation to Forecast Future Acute Inpatient Obstetric Services Utilization.

(1) When area of Maryland residence is equal to jurisdiction of care, calculate the target year number of births, by jurisdiction of care, by subtracting from the target year number of births, by area of residence, the product of the base year percent of births to residents of the area in all other jurisdictions of care, by area of residence, and the target year number of births, by area of residence, and subtracting from the result the product of the base year percent of births in federal hospitals, by area of residence, and the target year number of births, by area of residence.

(2) When area of Maryland residence is not equal to jurisdiction of care, calculate the target year number of births, by jurisdiction of care, by the following steps:

- Determine the percent of births by residents of other areas of Maryland in the jurisdiction of care (steps a and b):

- (a) Determine the base year percent of in-migration for deliveries to residents of other areas of Maryland.

- (b) Determine the base year percent of births in the jurisdiction of care that is not due to in-migration. Divide (a) by this percent. This calculation yields an adjustment of the base year percent of in-migration.

- Determine the number of births by residents of the jurisdiction of care (steps c and d):

- (c) Determine the base year percent births in jurisdiction of care to residents of the jurisdiction of care.

- (d) Multiply the percent obtained in (c) by the target year number of births in the jurisdiction of residence to obtain the number of births by the residents of the jurisdiction of care.

- Determine the number of births by residents of other areas of Maryland in the jurisdiction of care (step e).

- (e) Multiply the percent obtained in (d) by the number obtained in (b).

(3) Calculate the target year number of births in Maryland, by jurisdiction of care, by summing, over all Maryland areas of residence, the target year number of births, by area of residence and jurisdiction of care.

(4) Calculate the percent of obstetrical discharges not resulting in births, by jurisdiction of care, by dividing the base year number of obstetrical discharges in non-birth related DRGs (376-379 and 382-384) by the total base year number of obstetrical discharges in all DRGs, by jurisdiction of care.

(5) Calculate the target year number of discharges, by jurisdiction of care, by multiplying the target year number of births, by jurisdiction of care, by the sum of one and the proportion of obstetrical discharges not resulting in births, by jurisdiction of care, and adding the result to the base year number of out-of-state discharges, by jurisdiction of care.

(6) Using the values found in Table B1 above, calculate the proportional statewide change in average length of stay, by DRG category, by subtracting the target year expected average length of stay, by DRG category, from the base year average length of stay, by DRG category, and dividing the result by the base year average length of stay, by DRG category.

(7) Calculate the minimum and maximum adjusted target year average length of stay, by jurisdiction of care, by summing over both DRG categories, multiplying the product of one minus the proportional statewide change in average length of stay, by DRG category, the base year average length of stay, by DRG category, and the number of discharges in the base year by DRG category, and dividing the result by the sum of the number of discharges in the base year, by DRG category.

(8) Calculate the number of patient days projected in the target year, by jurisdiction of care, by multiplying the number of discharges projected in the target year, by jurisdiction of care, by the adjusted target year length of stay, by jurisdiction of care.

(9) Calculate the average daily census, by jurisdiction of care, by dividing the target year number of patient days, by jurisdiction of care, by 365.

Mathematical Formulas. The utilization forecast methodologies described above are shown in this section in mathematical form. Terms are defined in alphabetical order in the following table:

<u>Term</u>	<u>Definition</u>
d	discharge type, where 1 = Cesarean Section deliveries (DRGs 370-371), 2 = vaginal deliveries (DRGs 372-375) and 3 = post partum and ante partum diagnoses (DRGs 376-379, 382-384)
i	area of residence, where 1 ... 24 = Maryland jurisdictions and 25, ..., 48 = out-of-state areas
j	jurisdiction of care, where 1, ..., 24 = Maryland jurisdictions
m	minimum and maximum, where 1 = minimum and 2 = maximum
ADC	average daily census
ATLOS	adjusted target year average length of stay
BBIR	base year number of births
BDIS	base year number of discharges
BLOS	base year average length of stay
BODIS	base year number of out-of-state discharges
BPBIRFH	base year percent of births in federal hospitals
BPROIM	base year percent of in-migration for discharges resulting in deliveries to residents of other areas in Maryland
BPROOM	base year percent births to residents of an area in all other jurisdictions of utilization
CHLOS	statewide proportional change in average length of stay
NBDIS	non-birth discharges
PRNONBIR	percent of obstetrical discharges not resulting in births
TBIR	target year number of births in Maryland
TDIS	target year number of discharges
TELOS	target year expected average length of stay
TLOS	target year average length of stay
TPD	target year patient days

Formulas. Forecasted obstetric services average daily census is calculated as shown in the following formulas:

$$(1) \text{ When } i = j, \text{ TBIR}_{ij} = \text{TBIR}_i - [(\text{BPROOM})(\text{TBIR})_i] - [(\text{BPROFH}_i)(\text{TBIR}_i)]$$

$$(2) \text{ When } i \leq 24 \text{ and } \neq j, \text{ TBIR}_{ij} = \frac{\{[(\text{TBIR}_i)(\text{BPROIM}_{ij})]\}}{\{[\text{BPROIM}_{ij}/(1 - \text{BPROIM}_{ij})] * (1 - \text{BPROOM}_j)(\text{TBIR}_i)\}}$$

$$(3) \text{ TBIR}_j = \sum_{i=1}^{24} \text{TBIR}_{ij}$$

$$(4) \text{ PRNONBIR}_j = \frac{\text{NBDIS}_{d3j}}{\text{BDIS}_j}$$

$$(5) \text{ TDIS}_j = [(1 + \text{PRNONBIR}_j)(\text{TBIR}_j)] + \text{BODIS}_j$$

$$(6) \text{ CHLOS}_{d1, 2+3m} = [(\text{BLOS}_d - \text{TELOS}_{dm})]/\text{BLOS}_d$$

$$(7) \text{ ATLOS}_{jm} = \sum_d [(1 - \text{CHLOS}_{dm})(\text{BLOS}_{jd})[(\text{BDIS}_{jd})/(\text{BDIS}_{jd})]$$

$$(8) \text{ TPD}_j = (\text{TDIS}_j)(\text{ATLOS}_j)$$

$$(9) \text{ ADC}_j = \text{TPD}_j/365$$



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